



# RCRA Compliance Inspection Report

WA 8967  
7/14/2015  
4A

## U.S. Department of Energy Hanford

325 Laboratory Building

Richland, Washington


WA7890008967

July 14, 2015

FILE COPY



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8/13/2015  
\_\_\_\_\_  
Report Date

  
\_\_\_\_\_  
Peer Review Signature

7/31/2015  
\_\_\_\_\_  
Date

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### **Disclaimer**

This report is a summary of observations and information gathered from the facility at the time of the inspection. The information provided does not constitute a final decision on compliance with RCRA regulations, nor is it meant to be a comprehensive summary of all activities and processes conducted at the facility.

## Section A: Basic Facility and Inspection Information

### Facility Information

Handler Name: U.S. Department of Energy Hanford

Handler ID Number: WA7 89000 8967

Facility Contact/Title: Cliff Clark, Regulatory Compliance Manager

Facility Location Address: Hanford Facility, Richland Washington

Facility Mailing Address: P.O. Box 550, Richland, Washington 99352-0550

Contact Phone Number: (509) 376-9333

Contact Email Address: clark.cliff@rl.doe.gov

GPS Coordinates of Site: Lat: 46.557143  
Long: -119.54328

### Inspection Information

Inspection Type: Focused Compliance Inspection (FCI) for the  
325 Laboratory Building

Inspection Date: July14, 2015

Arrival Time: 8:18 am PDT

Departure Time: 11:23 pm PDT

Inspection Team: Jack Boller, RCRA Compliance Officer, EPA  
Matthew Vojik, Inspector, EPA  
Jared Mathey, RCRA Compliance Officer, Ecology

## Section B: General Facility Information

Owner/Operator Information: The owner of the facility is the United States Government. The operator is the U.S. Department of Energy (DOE). The DOE uses multiple contractors to operate the facility. DOE has contracted with Battelle's Pacific Northwest National Laboratory (PNNL) to manage the 325 Laboratory Building (325) unit group covered by this inspection.

Site Location: The Hanford Nuclear Reservation is an approximately 600 square mile facility located in central Washington State immediately north of Richland, Washington. It is bounded on the north and east by the Columbia River. Immediately to the south of the Reservation is the Richland/Kennewick/Pasco Tri-cities urban area. The area north of the river and west of the facility is the Hanford Reach National Wildlife Preserve. The surrounding areas to the east of the facility are sparsely populated agricultural land. According to EJSCREEN, the facility is not in an environmental justice area. There are areas within the facility that have cultural significance to various central Washington and central Oregon Native American Nations.

This inspection focused on waste management activities at the 325 Laboratory Building unit group. It is in the 300 Area which is located at the south end of the Hanford facility approximately 1 mile from the southern boundary of the facility.

**Background and Activities:** The following information was obtained from facility personnel during the inspection. The 325 Laboratory conducts research as well as analysis to support waste management. The 325 Building also houses permitted hazardous waste treatment and storage areas and less than 90 day accumulation areas. The main container storage units are in rooms 520, 520A, 524, and 528. Any release of liquid waste or any fire suppression water from the sprinkler system in rooms 520, 520A, and 528 would flow through floor drains into a "firewater" tank in the basement of the building. There are several laboratory rooms which accumulate waste in satellite accumulation areas and a central less than 90 day accumulation area. There is also a shielded analytical laboratory (SAL) in the building which consists of six hot cells. One of the hot cells is a permitted storage area and there is a less than 90 day area behind the cells. Any releases from this area flow into a second tank in the basement. This is tank TK-1 and it is permitted for storage and treatment of hazardous waste.

### **Section C: Regulatory Information**

**Compliance History:** The Hanford facility is a RCRA Significant Non-Complier (SNC). It has been in SNC status since the mid 1990's. For more details see the inspection report for the April 1, 2014 Hanford RCRA inspection.

**Regulatory Status:** The Hanford facility is a permitted Treatment, Storage, and Disposal facility as well as a large quantity generator of hazardous waste and a large quantity handler of universal waste. The Permit was originally issued by Ecology in 1994 and had an expiration date of September 27, 2004. DOE has filed an application to renew the Permit. Pursuant to the provisions found in WAC173-303-806(7)(a), DOE will continue to operate under the original Permit and modifications that are made to that permit until a new permit is issued. The projected issuance date of the new permit is sometime in 2016.

The Permit has undergone several modifications. The current active Permit, including modifications, is Permit Revision 8C, Class 1 Modification, dated March 31, 2012 (Permit). It identifies multiple hazardous waste unit groups within the facility. Within each unit group, there may be several individual treatment, storage, or disposal units. The Permit includes a site wide contingency plan and training plan that covers all of the operating and closing units. It has final status operating standards for some of the unit groups. The Permit requires those units that do not have final status permit standards to operate in compliance with the interim status standards until such time that final status permit standards are implemented for that unit. Final status permit standards can be implemented either through a permit modification or issuance of a new permit. The Part A Permit Application Form for each unit group identifies the activities being conducted in that unit group and wastes that are potentially being managed in the unit group.

Operating standards for the treatment and storage units at 325 are in the current (March 31, 2012) Permit. It identifies the units as tank and container storage and treatment units. The main container storage areas are in rooms 520, 520A, 524, and 528. There is also a permitted container storage area in the SAL. The permitted tank storage and treatment is conducted in tank TK-1 located in the basement under the SAL. 325 is also a large quantity generator of hazardous waste which is accumulated in satellite accumulation areas in the laboratories and less than 90 day accumulation areas in the building.

**Site Hazardous Waste Information:** According to the unit's Part A of the permit application approved by Ecology on 10/9/2008 and information obtained during the inspection, 325 is permitted to manage 43 characteristic wastes, 7 F-listed wastes, 123 P-listed wastes, and 246 U-listed wastes as well as 5

state only regulated dangerous wastes. Facility personnel told us that most of the wastes managed in 325 are classified as radioactive mixed waste. The Department of Energy, the Washington State Department of Health, the Washington State Department of Ecology, and the EPA all have regulatory authority over mixed waste. We observed that a wide variety of laboratory wastes, fluorescent lamps, batteries, used oil and aerosol cans are generated at 325.

## **Section D: Description of Inspection**

**Purpose of Inspection:** This was a focused compliance evaluation inspection (FCI) of 325 to assess compliance with the Hanford Facility Resource Conservation and Recovery Act Permit, Permit Revision 8C, Class 1 Modification, dated March 31, 2012 (Permit) which incorporates WAC 173-303-400 interim status standards. The inspection also assessed compliance with the following regulations of Washington's federally authorized hazardous waste program: WAC 173-303-170 through 230 standards for hazardous waste generators; WAC 173-303-573 standards for universal waste; and WAC 173-303-515 requirements for management of used oil.

**Inspection Entry and Opening Conference:** On July 9, 2015 at approximately 2:00 pm I notified Department of Energy and PNNL personnel of our intent to inspect 325 on July 14, 2015.

The inspection team arrived at 325 at 8:18 am on July 14, 2015. We were met by Gene Grohs the Environmental Manager for PNNL. After signing in, Mr. Grohs led us to a conference room where we were joined by several representatives of PNNL for an opening conference. A list of attendees is in Attachment C. We presented our inspector credentials and we began the opening conference.

In the opening conference, I explained that this would be an EPA lead inspection and that we would be evaluating compliance with the Permit and the Ecology federally-authorized Dangerous Waste Regulations. After answering a few logistical questions regarding file reviews and document requests we ended the opening conference. We then were issued dosimeters by PNNL and began a tour of the building.

### **Inspection Summary:**

During the tour we looked at the regulated units as well as waste generation points in several laboratories. We observed waste management practices as well as looking for wastes that may not have been identified previously. Following the tour, we reviewed some documents on site and obtained copies of others to review in our office. The documents reviewed included hazardous waste manifests, training records, the contingency plan and building emergency plan, the waste analysis plan, inspection logs, and the waste inventory. The areas inspected during the tour are listed below. In addition to our observations, our sources of information for each area visited are given below.

**Hazardous waste storage units in rooms 520, 520A, 524, and 528** Contact: Laurie True  
We observed several metal cabinets containing numerous small containers (ranging in size from a few milliliters to 4 liter bottles) of various waste streams as well as a few drums of waste.

**Less than 90 day area in room 529** Contact: Gene Grohs  
We observed four metal cabinets each containing from 1 to 7 small containers of waste. All were closed, labeled and dated.

**Analytic Laboratories** Contact: Chuck Soderquist  
We observed several satellite accumulation areas in fume hoods. Each satellite area was clearly marked with a sign and had a log sheet for recording additions to the waste container

Hot Cells (SAL) Contact: Gene Grohs

We observed two 6 liter and one 1 gallon container in the SAL unit. Due to entry restrictions because of radiation levels we did not observe the less than 90 day area in the SAL. We also observed via remote camera the TK-1 storage tank that is located in the basement beneath the SAL. It is used to collect spills and releases from the SAL. According to Mr. Grohs the tank has been empty for 8 years.

Shop Contact: Gene Grohs

We observed a collection area for batteries which are managed as universal waste. We also observed the accumulation area for fluorescent lamps. Facility personnel explained that lamps are crushed in a crusher unit and have been sampled and analyzed to show that they do not designate as hazardous waste.

Outside accumulation areas Contact: Gene Grohs

Outside of the building we observed a shed for accumulating used oil. There was one drum in the shed. It was properly labeled. There was also a container for collecting aerosol cans prior to recycling.

Any issues or items of interest that the inspection team identified are discussed below.

During the onsite file review, Mr. Van Arsdale, the Mixed Waste Operator Manager, explained that offsite shipments of mixed waste occur on an 18 to 24 month cycle to assure a full load and make shipping more economical. Storage of dangerous waste for more than one year is prohibited unless the owner/operator can demonstrate that the storage is solely for the purpose of accumulating such quantities of waste as are necessary to facilitate proper recovery, treatment or disposal. Following the onsite inspection, I received the waste inventory list for the waste that was onsite at the time of the inspection. I reviewed the inventory and found that there were a total of forty-one containers of various size that had been onsite over one year. Of those forty-one, seven had been onsite for four years or more.

Through the TPA, EPA and Ecology have agreed to allow the Hanford facility to store some hazardous wastes in excess of one year. This extended storage is allowed only for wastes for which there is no treatment technology, provided that the waste is on an agreed schedule for treatment to meet LDR standards before 2030. As part of this agreement DOE must file an annual report identifying what waste has been treated and what waste is awaiting treatment. In reviewing this report in the past it was found that the report lacks enough detail to determine if specific containers are included and therefore allowed to be stored for more than one year.

Closing Conference: Following the onsite file review, we conducted a closing conference. We discussed the lamp crushing and Mr. Mathey said he would send the facility the most current State guidance on management of fluorescent lamps.

I stated that until we had completed review of the documents we were taking copies of, we couldn't say whether or not we observed any violations.

I thanked the facility representatives for their time and cooperation and departed the site at 11:23 am.

## **ATTACHMENT A**

### **Aerial Photo**



My Notes



On the go? Use [m.bing.com](http://m.bing.com) to find maps, directions, businesses, and more



Bird's eye view maps can't be printed, so another map view has been substituted.



## **ATTACHMENT B**

### **Photo Log**

USDOE Hanford (325)  
WA7890008967  
July, 2015 RCRA Inspection Report

## Photograph Log

Facility: Hanford – Building 325  
RCRA ID #: WA7890008967  
Photographer: Matt Vojik  
Camera: Panasonic DMC-FH25  
Date: July 14, 2015

Note: The camera was not set to local time during the inspection. Each electronic file indicates a time that is one hour later than the actual time that the photograph was taken.

- P1010871 – Flammable waste storage area in Room 520A
- P1010872 – Flammable waste storage area in Room 520A
- P1010873 – Flammable waste storage area in Room 520A
- P1010874 – Flammable waste storage area in Room 520A
- P1010875 – Corrosive waste storage area in Room 520
- P1010876 – Corrosive waste storage area in Room 520
- P1010877 – Fume hood #1 for treatment of radioactive wastes in Room 520
- P1010878 – Fume hood #2 in Room 520
- P1010879 – Bulking bin for packaging hazardous waste in Room 520
- P1010880 – Toxic waste storage area in Room 524
- P1010881 – Waste lithium batteries stored in Room 524
- P1010882 – Storage area for non-radioactive hazardous waste in Room 524
- P1010883 – Drums labeled as radioactive and mixed waste in Room 524
- P1010884 – Toxic waste storage area in Room 524
- P1010885 – Toxic waste storage area in Room 524
- P1010886 – Containers labeled as non-radioactive hazardous waste packaged for shipment in Room 524
- P1010887 – Toxic waste storage area in Room 528
- P1010888 – Toxic waste storage area in Room 528
- P1010889 – Storage area for waste corrosive bases in Room 528
- P1010890 – Storage area for waste oxidizers in Room 528
- P1010891 – Drums labeled as radioactive toxic waste in Room 528
- P1010892 – Drums labeled as radioactive corrosive waste in Room 528. Mr. Grohs stated that these drums contained waste acids packaged for shipment.
- P1010893 – A drum labeled as radioactive toxic waste in Room 528
- P1010894 – Storage area for waste oxidizers in Room 528
- P1010895 – A container labeled as toxic waste located a cabinet in Room 529
- P1010896 – Less than 90 day area for acid wastes in Room 529
- P1010897 – Less than 90 day area for acid wastes in Room 529
- P1010898 – Less than 90 day area for waste corrosive bases in Room 529 P1010899 – A container labeled as flammable waste located in a cabinet in Room 529
- P1010900 – Containers labeled as toxic waste located on a shelving unit in Room 529
- P1010901 – A sign and a radioactive waste disposal request form posted at Satellite Accumulation Area 1156 in Room 525
- P1010902 – View inside Satellite Accumulation Area 1156 in Room 525
- P1010903 – View inside Satellite Accumulation Area 1156 in Room 525

- P1010904 – Radioactive waste disposal request forms posted at Satellite Accumulation Area 1156 in Room 525
- P1010905 – Satellite Accumulation Area 1158
- P1010906 – View inside Satellite Accumulation Area 1158
- P1010907 – Satellite Accumulation Area 1116
- P1010908 – View inside Satellite Accumulation Area 1116
- P1010909 – View inside Satellite Accumulation Area 2586
- P1010910 – Radioactive waste disposal request form posted at Satellite Accumulation Area 2586
- P1010911 – Radioactive waste disposal request forms posted at Satellite Accumulation Area 1117 in Room 525
- P1010912 – View inside Satellite Accumulation Area 1117 in Room 525
- P1010913 – View through a window of a hot cell in the Shielded Analytical Laboratory
- P1010914 – View through a window of a hot cell in the Shielded Analytical Laboratory
- P1010915 – Containers labeled as hazardous waste located in a hot cell in the Shielded Analytical Laboratory
- P1010916 – Containers labeled as hazardous waste located in a hot cell in the Shielded Analytical Laboratory
- P1010917 – Video screen used to monitor the tank located underneath the Shielded Analytical Laboratory
- P1010918 – Video screen used to monitor the tank located underneath the Shielded Analytical Laboratory
- P1010919 – Video screen used to monitor the tank located underneath the Shielded Analytical Laboratory
- P1010920 – Satellite Accumulation Area 4212 in Room 419
- P1010921 – Satellite Accumulation Area 1094 in Room 405
- P1010922 – Satellite Accumulation Area 1094 in Room 405
- P1010923 – Satellite Accumulation Area 1096 in Room 405
- P1010924 – Day-use container used to collect waste from the Optical Emission Spectrometer in Room 405
- P1010925 – Day-use container used to collect waste from the Optical Emission Spectrometer in Room 405
- P1010926 – Satellite Accumulation Area 1137 used to collect lead waste in Room 406
- P1010927 – Universal waste accumulation area
- P1010928 – Used oil accumulation area
- P1010929 – A container used as an accumulation area for aerosol products



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P1010925.JPG



P1010926.JPG



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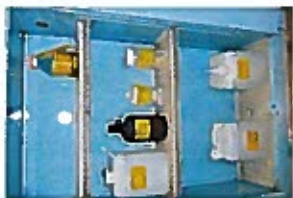
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## **ATTACHMENT C**

### **Documents collected from the facility**

- a. Waste Inventory**
- b. Part A permit application**
- c. Attendance roster**

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
520 C1	173848	A27138	1/29/2014	8.750	8.750	10	L	Poly	Liquid	D002 F039	VRRM liquid - Hanford U Project - 300 area groundwater
520 C1	178337	A28718	3/26/2015	0.900	0.850	1	L	Glass	Liquid	D002 F039	ACIDIC WASTE, 300 area soil samples, <i>F039 derived</i>
520 C1	178422	A25765	2/25/2015	1.060	0.800	1	L	Poly	Solid/Liq	D002	Acidic Aqueous
520 C1	179619	A29260	6/25/2015	2.070	1.800	2	L	Teflon	Liquid	D002	Acidic Aqueous
Total Ops/325/520/520 C1				12.780	12.200	Count 4					
520 C2	175488	A24980	6/25/2014	0.800	0.800	1	L	Poly	Liquid	D002 F001 F002 F004 F005	Acidic Aqueous
520 C2	176180	A25126	8/27/2014	0.250	0.200	.5	L	Teflon	Liquid	D002	Acidic Aqueous
520 C2	178231	A26873	1/28/2015	0.760	0.610	1	L	Teflon	Liquid	D002 U219 D011	Acidic Aqueous
520 C2	178279	A19267	3/26/2015	0.850	0.500	2.5	L	Glass in	Liquid	F039 D002 D007	chromium acidic waste with 300 area soil samples, <i>F039</i>
520 C2	178882	A28750	3/25/2015	2.320	1.800	2	L	Teflon	Liquid	D002	Acidic Aqueous
520 C2	179673	A28351	6/25/2015	2.000	2.000	2	L	Teflon	Liquid	D002	Microwave Digestion - potential contamination from microwave
520 C2	179748	A27974	6/25/2015	3.750	4.000	4	L	Poly	Liquid	D011 D007 D002 F001 F002 F005	Sparged Ground water from well (299-W19-36)-- adsorption
520 C2	179794	A28660	7/1/2015	3.600	3.600	4	L	Glass	Liquid	D002	Mineral Acids
Total Ops/325/520/520 C2				14.330	13.510	Count 8					
520 F1	173827	A27578	2/5/2014	1.000	1.000	1	L	Poly	Liquid	D001 F003	BET Rinse (Water, Acetone, Ethanol)(LS500-02)
520 F1	174007	A27033	2/26/2014	0.090	0.100	.125	L	Poly	Liquid	D001 D002	Acidic Aqueous
520 F1	174384	A26743	2/26/2014	1.000	0.900	1	L	Teflon	Liquid	D002	Ultima Gold and nitric acid
520 F1	174510	A25827	3/5/2014	3.000	3.000	4	L	Glass	Liquid	WT02	LSC Cocktail
520 F1	174981	A16652	4/23/2014	3.400	3.500	4	L	Glass	Liquid	D022	Optifluor and Optifluor O, chloroform at use was 2%
520 F1	174982	A23947	4/23/2014	1.900	2.000	2.5	L	Glass	Liquid	WT02	Opti-fluor counting cocktail
520 F1	174983	A25668	4/23/2014	2.120	2.200	3	L	Glass	Liquid	F039	Opti-fluor counting cocktail, Hanford sediments
520 F1	175084	A22870	5/7/2014	7.900	7.900	8	L	Poly	Liquid	D001 D002 D007	Acid Waste
520 F1	175246	A27983	6/4/2014	1.700	2.000	2.5	L	Glass	Liquid	WT02	Talspeak Organic (dodecane solution)
520 F1	175266	A27742	5/29/2014	1.700	1.800	2	L	Poly	Liquid	F003 D001	50%Ethanol and 50%Ethyl Ether
520 F1	175342	A27941	5/29/2014	0.290	0.300	.5	L	Teflon	Liquid	D002	Acidic Organic
520 F1	175475	A25762	5/29/2014	0.950	0.900	1	L	Poly	Liquid	D002	Acidic Organic
520 F1	175479	A27739	5/29/2014	0.500	0.450	.5	L	Poly	Liquid	D002	Acidic Organic (VRRM)

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
520 F1	175965	A27738	7/23/2014	0.790	0.300	1	L	Teflon	Liquid	D002	Acidic Aqueous
520 F1	176150	A26974	08/06/2014	1.000	1.000	1.5	L	Glass	Liquid	D002D002 D002 D002 D002	Organics and acid waste
520 F1	176352	A19253	8/27/2014	1.800	1.800	2	L	Glass	Liquid	F039	300 area Hanford groundwater, 300 area Hanford soils, and
520 F1	177224	A28395	11/25/2014	0.650	0.650	1	L	Poly	Liquid	WT02	Opti-fluor O counting cocktail solution
520 F1	178115	A26202	1/28/2015	0.660	0.500	1	L	Poly	Liquid	D002	Acidic waste, greater than 10 percent organic
520 F1	178177	A25944	2/25/2015	1.000	1.000	1	L	Glass	Liquid	F039 D002	acidified 300 area ground water
520 F1	178178	A25945	1/28/2015	0.500	0.500	0.5	L	Glass	Liquid	D001	hionic fluor cocktail
520 F1	178233	A13014	2/25/2015	2.450	2.000	2	L	Glass	Liquid	D011	hydrogen sulfide trapping solution
520 F1	178234	A23264	2/25/2015	2.100	1.800	2	L	Glass	Liquid	D011	hydrogen sulfide trapping solution
520 F1	178329	A19256	2/25/2015	0.500	0.500	1	L	Glass	Liquid	D001	hionic fluor cocktail
520 F1	178332	A19261	2/25/2015	0.500	0.500	0.5	L	Glass	Liquid	D002	acidic waste
520 F1	178335	A29014	3/26/2015	2.000	2.000	3	L	Glass	Liquid	F039 D001	ETHANOL WASTE - 300 area groundwater F039 derived
520 F1	178340	A29142	3/26/2015	3.800	4.000	4	L	Glass	Liquid	WT02	SALT WASTE
520 F1	178341	A19252	3/26/2015	3.300	3.500	4	L	Glass	Liquid	D002 D022	Opti-fluor counting cocktail
520 F1	178350	A28238	2/25/2015	0.500	0.500	5	L	Glass	Liquid	D002 F039	leucine waste from solid phase extractions - 300 AREA
520 F1	178351	A28321	3/26/2015	2.500	2.000	2.5	L	Glass in	Liquid	F039 D022 D010	soil extracts and 300 area groundwater samples F039
520 F1	178354	A29138	2/25/2015	0.250	0.250	.5	L	Poly	Liquid	D001	ETHANOL WASTE
520 F1	178968	A27241	3/25/2015	1.260	0.780	1	L	Glass	Liquid	WT02	Lab Solutions
520 F1	179591	A29705	6/25/2015	0.760	0.900	1	L	Poly	Liquid	D001	Ethanol with trace collodion
520 F1	179646	A29808	6/3/2015	0.650	0.650	2	L	Poly	Liquid	WT02	LSC Cocktail with stock solutions
520 F1	179647	A29803	6/3/2015	2.000	2.000	2	L	Poly	Solid	WT02	LSC Cocktail
Total Ops/325/520/520 F1				54.520	53.180	Count 34					
520 F2	173970	A22741	3/5/2014	6.000	6.000	10	L	Poly	Liquid	D030 F001 F002 F004 F005	IC Eluent from lab 400 (0.1% tank waste) - Same process as
520 F2	174099	A27701	2/26/2014	2.700	3.000	3.78	L	Poly	Liquid	D001	Ethanol
520 F2	174771	A27841	3/26/2014	0.006	0.006	1	L	Poly Bag	Liquid	D001	6.6 ml of C-14 in indole
520 F2	174773	A27843	3/26/2014	0.060	0.060	1	L	Poly Bag	Liquid	D001 U239	3 vials, 20 ml per vial of C-14 in Xylene (RMT 8610, 8623, 8631)
520 F2	175184	A27976	5/29/2014	3.000	3.600	4	L	Poly	Liquid	WT02	Metal Polishing from Du-Molly Sample (RMT Sample #72682)
520 F2	175245	A27982	6/4/2014	1.250	1.500	2	L	Poly	Liquid	WT02	Solvent Waste Test Product (dodecane solution)/Item was



## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
520 F2	175777	A28122	7/2/2014	3 000	3 000	10	L	Poly Bag	Liquid	WT02	Scintilation Cocktail
520 F2	177225	A28396	11/25/2014	2 500	2 500	2.5	L	Glass	Liquid	WT02	Opti-fluor O counting cocktail solution, teflon coated glass bottle
520 F2	178328	A13017	3/26/2015	3 650	3 500	4	L	Glass	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178334	A25666	3/26/2015	1 200	1 000	2.5	L	Glass	Liquid	D001	hionic fluor and Ultima Flo AF cocktail
520 F2	178338	A28719	2/25/2015	2 050	2 000	2.5	L	Glass in	Liquid	WT02	Opti-fluor counting cocktail - teflon lined glass container
520 F2	178339	A28720	2/25/2015	2 000	2 000	2.5	L	Glass in	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178343	A25667	2/25/2015	2 300	1 800	2.5	L	Glass in	Liquid	WT02	Opti-fluor counting cocktail with PIPES
520 F2	178345	A13008	3/26/2015	1 000	1 000	1	L	Glass	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178347	A16271	2/25/2015	1 000	1 000	1	L	Glass	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178348	A23034	2/25/2015	3 300	3 500	4	L	Glass	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178352	A29090	2/25/2015	2 100	2 000	2.5	L	Glass in	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178353	A29137	2/25/2015	1 600	1 500	2.5	L	Glass in	Liquid	WT02	Opti-fluor counting cocktail
520 F2	178596	A26782	3/5/2015	8 600	8 600	10	L	Poly	Liquid	WT02	Ultima Gold
520 F2	179283	A26538	5/6/2015	3 600	3 600	4	L	Glass	Liquid	WT02	Ultima Gold and mineral oil from ASO
520 F2	179306	A21220	5/6/2015	3 875	3 875	4	L	Glass	Liquid	WT02	LSC Cocktail
520 F2	179539	A29222	6/3/2015	21.500	20.000	20	L	Poly	Liquid	WT02	lab 306 liquid waste, (ultima gold)
Total Ops/325/520/520 F2				76.291	75.041			Count	22		
Hood #1	177637	A28714	12/3/2014	0 800	3 000	20	L	Poly Bag	Solid	D008 D003	Light Bulb and 2 - Li/MnO2 (button) Batteries from ISC-2
Total OPS/325/520/Hood #1				0 800	3 000			Count	1		
Total All 520				158.721	156.931			Count	69		

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
524	177518	A27438	12/3/2014	2 429	2 000	8	L	Metal	Solid	D010	TBG-136 BRACCO Samples (Stannic Oxide and API Liquids ~
Total Ops/325/524/524				2 429	2 000	Count 1					
524 C1	169169	A25706	2/27/2013	0 800	4 000	8	L	Metal	Solid	D008	Light Bulb from SAL Hot Cells
524 C1	173351	A26300	12/04/2013	1 050	1 000	1	L	Poly	Solid/Liq	D010	ICP waste TBG-036
524 C1	173511	A26600	2/26/2014	1 050	1 000	2	L	Poly	Solid	F039	volumetrically released material - 200 area pit soil - Hanford U
524 C1	176060	A27718	8/27/2014	1 200	1 000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed waste
524 C1	176070	A27724	8/27/2014	1 000	1 000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed waste
524 C1	176102	A27970	7/23/2014	3 000	3 000	4	L	Glass	Liquid	D022	ECM liquid (non-F listed)
524 C1	176318	A27728	8/27/2014	1 150	1 000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed waste
524 C1	176737	A27722	9/24/2014	1 200	1 000	1	L	Poly	Solid/Liq	D010	ICP waste TBG-036
524 C1	176776	A27730	9/24/2014	1 200	1 000	1	L	Poly	Solid/Liq	D010	FY14P - ICP waste TBG-036
524 C1	176777	A27787	9/24/2014	1 150	1 000	1	L	Poly	Solid/Liq	D010	FY14P - ICP waste TBG-036
524 C1	176778	A27788	9/24/2014	1 000	1 050	1	L	Poly	Solid/Liq	F001 F002 F004 F005 F039 D010	FY14P - ICP waste TBG-082, F-listed waste
524 C1	177062	A27792	9/24/2014	1 050	1 000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010 F039	FY14P - ICP waste TBG-082, F-listed waste
524 C1	177086	A27946	10/29/2014	0 550	1 000	2	L	Poly Bag	Solid	WT02	FY14P-TRU Resin Columns Drained and Dry
524 C1	178194	A29053	2/25/2015	2 200	2 000	2	L	Poly	Liquid	F039	TBG-140 KPA effluent (CTR-KPA-29) - 300 area groundwater
524 C1	178195	A29057	2/25/2015	2 200	2 000	2	L	Poly	Solid/Liq	F039	TBG-138 ICP effluent- 300 area groundwater samples
524 C1	178196	A29060	2/25/2015	2 100	2 000	2	L	Poly	Liquid	F039	TBG-139 Carbon Analyzer effluent treated waste (CTR-Carbor
524 C1	178226	A28738	1/28/2015	0 190	0 600	1	L	Poly	Solid/Liq	D011	1 Liter Poly Container containing a Silver Ph Probe; Item was
524 C1	178456	A29055	2/25/2015	2 100	2 000	2	L	Poly	Liquid	F039 WT02	TBG-140 KPA effluent (CTR-KPA-30) - 300 area groundwater
524 C1	178457	A29058	2/25/2015	2 350	2 100	2	L	Poly	Solid/Liq	F039	TBG-138 ICP effluent - 300 area groundwater samples
524 C1	178458	A29059	2/25/2015	2 200	2 000	2	L	Poly	Solid/Liq	F039	TBG-138 ICP effluent - 300 area groundwater samples
524 C1	178459	A29061	2/25/2015	2 000	2 000	2	L	Poly	Liquid	F039	TBG-139 Carbon Analyzer effluent treated waste (CTR-Carbor
524 C1	178461	A28355	2/25/2015	1 050	1 000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed
524 C1	178990	A29019	5/28/2015	0 950	1 000	1	L	Poly	Liquid	D010 F001 F002 F004 F005	IC Waste TBG-084
524 C1	178991	A29022	5/28/2015	0 950	1 000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
524 C1	178992	A29025	5/28/2015	0 900	1 000	1	L	Poly	Liquid	D010	ICP waste TBG-036

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
524 C1	179307	A15014	5/6/2015	1.000	1.000	1	L	Poly	Liquid	WT02	Titration waste w/Buffer
524 C1	179314	A29035	6/25/2015	1.250	1.000	1	L	Poly	Liquid	D004 D010	ICP waste TBG-036
524 C1	179315	A29558	6/25/2015	1.150	1.000	1	L	Poly	Liquid	D010	ICP waste TBG-036
524 C1	179316	A29559	6/25/2015	1.150	1.000	1	L	Poly	Liquid	D004 D010	ICP waste TBG-036
524 C1	179480	A24983	5/27/2015	0.140	0.500	1	L	Poly Bag	Solid	D008	6 Centrifuge Tubes Containing Lead Chloride Powder (VRRM)
524 C1	179485	A29560	6/25/2015	1.100	1.000	1	L	Poly	Solid/Liq	D004 D010	ICP waste TBG-036
524 C1	179630	A29795	6/3/2015	1.000	1.000	1	L	Poly	Liquid	WT02	acid waste( citric acid & sodium hydroxide)
Total Ops/325/524/524 C1				41.380	43.250	Count 32					
524 C2	174980	A19255	4/23/2014	1.950	2.000	2.5	L	Glass	Liquid	F039	Hanford groundwater and sediments
524 C2	175441	A27705	5/29/2014	1.200	1.000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082
524 C2	175442	A27709	5/29/2014	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082
524 C2	175443	A27713	6/25/2014	0.850	1.000	1	L	Poly	Liquid	D010 F001 F002 F004 F005	IC Waste TBG-084, F-listed IC waste
524 C2	175602	A27717	6/25/2014	1.050	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082
524 C2	176738	A27733	9/24/2014	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005	ICP waste TBG-082, F-listed waste
524 C2	176739	A27785	9/24/2014	0.950	1.000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed waste
524 C2	177063	A27793	10/29/2014	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	FY14P - ICP waste TBG-082, F-listed waste
524 C2	177064	A28328	10/29/2014	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	FY14P - ICP waste TBG-082, F-listed waste
524 C2	177160	A25663	10/29/2014	1.850	2.000	2.5	L	Glass	Liquid	D004 D022	FY14P - Optifluor and Optifluor O, chloroform at use was 2%
524 C2	177172	A28331	11/25/2014	1.200	1.000	1	L	Poly	Liquid	D010 F001 F002 F004 F005	FY14P - IC Waste TBG-084, F-listed IC waste
524 C2	177173	A28332	11/25/2014	1.000	1.000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	FY14P - ICP waste TBG-082, F-listed waste
524 C2	177658	A27791	11/25/2014	1.200	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
524 C2	177993	A28344	1/28/2015	1.200	1.000	1	L	Poly	Solid/Liq	D011 D004 D005 D006 D007 D008 D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed
524 C2	178326	A28348	2/25/2015	1.150	1.000	1	L	Poly	Liquid	D004 D010 F001 F002 F004 F005	IC Waste TBG-084, F-listed IC waste
524 C2	178697	A28350	3/26/2015	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
524 C2	178698	A29018	3/26/2015	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
524 C2	179241	A29023	6/25/2015	0.950	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	IC waste TBG-084, F-listed
524 C2	179242	A29021	5/28/2015	1.050	1.000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
524 C2	179243	A29026	5/28/2015	1.050	1.000	1	L	Poly	Solid/Liq	D010 F001 F002 F004 F005	ICP waste TBG-082, F-listed
524 C2	179244	A29029	5/28/2015	1.000	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 F039 D010	ICP waste TBG-082, F-listed
524 C2	179245	A28338	5/28/2015	1.100	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D004 D010	ICP waste TBG-082, F-listed
524 C2	179484	A29034	6/25/2015	1.200	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D004 D010	ICP waste TBG-082, F-listed
524 C2	179486	A29561	6/25/2015	1.050	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
524 C2	179667	A29563	6/25/2015	1.200	1.000	1	L	Poly	Solid/Liq	F001 F002 F004 F005 D010	ICP waste TBG-082, F-listed
Total Ops/325/524/524 C2				28.800	27.000	Count 25					
524	172048	A26893	9/26/2013	27.400	110.000	208	L	Poly Bag	Solid	F001 F002 F004 F005	FY13P (2) partially full five - gallon buckets of Mullite refractory
524	175135	A23565	4/23/2014	3.800	100.000	100	L	Poly Bag	Solid	WT02	TRU and Uteva Resin Cartridges, Drained and Dry.
524	176228	A28456	09/03/2014	0.012	0.007	.02	L	Poly	Solid	D004 D005 D006 D007 D008 D009 D010 D011	WPA (4)- 20 ml sample vials containing suspect soil or simulan
524	178464	A29141	3/26/2015	0.750	3.000	3	L	Poly Bag	Solid	F039 D007	MW debris bag - F039 300 area soil samples. F039 debris
524	178478	A29195	3/5/2015	19.000	20.000	20	L	Poly	Solid	WT02	Used Silica Gel for H3 removal process
524	179206	A29031	4/23/2015	15.250	160.000	208	L	Poly Bag	Solid	WT02	Non contacted Hanford debris
524	179473	A28443	5/27/2015	0.190	0.580	1	L	Poly Bag	Solid	D011	3420SP Silver Disks
524	179548	A29761	6/3/2015	1.500	0.500	1	L	Poly Bag	Solid	D008	lead pig
524	179700	Treated	5/21/2015	2.900	3.700	3.7	L	Metal	Solid	WT02	Pu waste/Treated residues from 159733. Solidified with 1500
524	179701	Treated	5/21/2015	2.851	3.700	3.7	L	Metal	Solid	WT02	Pu mixed waste/Residue from treatment of 159733 solidified in
524	179771	Bulk-15-1745	5/21/2015	2.246	3.700	3.7	L	Metal	Solid	WT02	Bulked Waste from treatment of 179702 and 179751
524	179795	A26188	7/1/2015	6.400	4.000	6	L	Metal	Solid	D008	SAL In-Cell SAA Waste (Expired Check Weights, suspect lead
524	179982	Treated		1.400	1.400	3.7	L	Metal	Solid	WT02	Residue from treatment of 175085. Solidified with Aquaset IIG
524	179983	Treated		1.600	1.600	3.7	L	Metal	Solid	WT02	Residue from treatment of 175085. Solidified with Aquaset IIG
524	179984	Treated		1.500	1.500	3.7	L	Metal	Solid	WT02	Residue from treatment of 175085. Solidified with Aquaset IIG
524	179985	Treated		3.500	3.500	3.7	L	Metal	Solid	WT02	Residue from treatment of 175085. Solidified with Aquaset IIG
Total Ops/325/524/524 Cab				90.299	417.187	Count 16					

# HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
524	173363	A27319	1/9/2014	4.650	50.000	208	L	Poly Bag	Solid	WT02	Debris with copper metal turnings - turnings are in a separate
524	174076	A27694	2/5/2014	17.000	20.000	20	L	Poly	Solid	WT02	Used Silica Gel for H3 removal process (Eagle Chemical
524	179514	A29534	5/28/2015	2.000	30.000	208	L	Poly Bag	Solid	D004 D007 D010 D011	HVE-096-HEPA Dust Stops, 24x24x12, Installed 8/01/02,
524	179517	A29537	5/28/2015	2.000	30.000	208	L	Poly Bag	Solid	D004 D007 D010 D011	HVE-105-HEPA Dust Stops, 24x24x2, Installed 11/16/10,
524	179839	A28409	6/25/2015	6.500	170.000	208	L	Poly Bag	Solid	WT02	Compactable waste with resin column
Total OPS/325/524/524 Yard Box				32.150	300.000			Count	5		
524 F2	170496	A26433	5/15/2013	0.042	0.002	0.1	L	Poly Bag	Solid	D003	(2) Button batteries, Sony CR2032, from RPL/528 glovebox
524 F2	172305	A27010	9/26/2013	1.000	0.500	1	L	Poly Bag	Liquid	D003	FY13P - Dremel Tool Battery from HCA Hood (Came from sarr
Total OPS/325/524/524 F2				1.042	0.502			Count	2		
Total All 524				196.100	789.939			Count	81		

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrip
528 C1	171593	A26747	7/25/2013	0.120	0.050	.25	L	Poly	Liquid	WT02	Lab Solutions
528 C1	174774	A27844	3/26/2014	0.030	0.030	2	L	Poly Bag	Liquid	WT02	30 sealed ampules of C-14 in sodium bicarbonate
528 C1	174858	A25371	4/2/2014	3.330	3.370	4	L	Glass	Liquid	WT02	LSC sample fractions
528 C1	174889	A24114	4/2/2014	0.100	0.100	1	L	Metal	Solid	F001 F002 F004 F005 D007 D008 D009	Two - 20 mL glass vials containing dried tank waste residue
528 C1	178342	A29089	2/25/2015	0.050	0.050	.25	L	Glass	Liquid	WT02	URANYL ACETATE WASTE
528 C1	178349	A28205	3/26/2015	0.100	0.100	.25	L	Glass	Liquid	WT02	TEM waste
Total Ops/325/528/528 C1				3.730	3.700	Count 6					
528 C2	156483	A15833	2/8/2011	0.110	0.110	.25	L	Poly	Liquid	WT02	Lab Liquids -Pu-238 ED Solution
528 C2	159213	A20875	5/10/2011	0.000	0.000	.5	L	Poly Bag	Solid	F001 F002 F004 F005 D005 D006 D007 D008 D011	Tank Samples (Assumes 1% tank waste for F-listed)
528 C2	174619	A27525	3/26/2014	0.050	0.050	4	L	Poly Bag	Solid/Liq	WT02	Open Unused Chemicals; loctite threadlocker, hysol (e-05cl)
528 C2	174747	A27831	4/2/2014	0.173	0.200	5	L	Poly Bag	Solid	WSC2 WT02	Misc items from Glove Box (Alkaline Batteries)
528 C2	175175	A26638	6/25/2014	1.200	1.000	1	L	Poly	Liquid	D006 D007 D008 D010	Tc Getters waste with 7.8 M simulant, blast furnace slag at 1%
528 C2	175247	A27984	6/4/2014	1.500	1.500	2	L	Poly	Liquid	WT02	Sodium Carbonate solution (.1M)/Item was initially bagged out
528 C2	175568	A26641	6/25/2014	1.050	1.000	1	L	Poly	Liquid	D004 D006 D007 D010	lab 152 waste - Tc Getters waste, pH rinse with 25% simulant
528 C2	175570	A26642	6/25/2014	0.950	1.000	1	L	Poly	Liquid	D004 D006 D010	DI samples - blast furnace slag = contains 10% of all solids but
528 C2	176374	A28357	09/03/2014	0.100	0.100	1	L	Poly Bag	Solid	WSC2 WT02	Batteries (3)
528 C2	177641	A28109	12/3/2014	0.100	0.100	4	L	Poly Bag	Liquid	WT02	CSC Cleanser Cream #2420, Cascade Custodial Supply
528 C2	178011	A29049	1/7/2015	0.100	0.100	.25	L	Poly Bag	Solid	WSC2 WT02	AA Battery rejected out of LLW bag (IWMS: 177846)
528 C2	178175	A26647	2/25/2015	0.950	1.000	1	L	Poly	Liquid	D002 D007 D010	lab 152 waste - Tc Getters waste, 80% pH rinse with 20%
528 C2	178192	A29054	2/25/2015	17.800	18.000	20	L	Poly	Liquid	F039	anion chromatographic effluent (CTR-IC-8) - 300 area
528 C2	178193	A29056	2/25/2015	17.900	18.000	20	L	Poly	Liquid	F039	anion chromatographic effluent (CTR-IC-9) - 300 area
528 C2	178321	A27485	2/6/2015	0.750	0.500	.5	L	Poly	Solid	WSC2 WT02	Potassium Hydroxide Pellets (waste is non-rad but container is
528 C2	178322	A27486	2/6/2015	0.750	0.500	.5	L	Poly	Solid	WSC2 WT02	Potassium Hydroxide Pellets (waste is non-rad but container is
528 C2	178323	A27484	2/6/2015	0.750	0.500	.5	L	Poly	Solid	WSC2 WT02	Potassium Hydroxide Pellets (waste is non-rad but container is
528 C2	178324	A27483	2/6/2015	0.750	0.500	.5	L	Poly	Solid	WSC2 WT02	Potassium Hydroxide Pellets (waste is non-rad but container is
528 C2	178325	A27482	2/6/2015	0.750	0.500	.5	L	Poly	Solid	WSC2 WT02	Potassium Hydroxide Pellets (waste is non-rad but container is
528 C2	178430	A28567	1/30/2015	0.600	1.000	1	L	Poly Bag	Solid	WSC2 WT02	NaOH solid granular

## HWTU Inventory Report - Items

Storage Location	Item	Gen ID	Storage Date	Waste (Kg)	Waste (L)	Size	Unit	Container Type	Phy State	Waste Codes	Waste Descrp
528 C2	178460	A29062	2/25/2015	17.500	17.500	20	L	Poly	Liquid	F039	anion chromatographic effluent (CTR-IC- 10) - 300 area
528 C2	179472	A24982	5/27/2015	0.690	0.500	1	L	Poly	Liquid	WT02	3420SP Basic Aqueous
Total Ops/325/528/528 C2				64.523	63.660	Count 22					
528 C3	172816	A26967	10/09/2013	0.006	0.006	4	L	Poly Bag	Solid	F001 F002 F004 F005 D004 D005 D006 D007 D008 D009 D010 D018 D030 D033 D043	FY13P - Tank waste samples (2 Metal Cans inside)
Total Ops/325/528/528 C3				0.006	0.006	Count 1					
528 F1	161283	A22564	10/13/2011	1.940	0.750	1	L	Poly Bag	Solid	WT02	Crit Safey has deemed these safe for FMH; FY11P - Ceramic
Total Ops/325/528/528 F1				1.940	0.750	Count 1					
528 F3	177120	A25897	10/29/2014	0.400	0.240	.5	L	Glass	Liquid	D001 D002	Perchloric Acid
528 F3	178044	A28207	1/28/2015	0.075	0.100	0.1	L	Glass	Solid	D001	Thorium nitrate hydrate, 3 - 25 gram bottles
528 F3	178230	A28700	1/28/2015	2.780	2.300	2.5	L	Glass	Liquid	D001	Lab Solutions
528 F3	178524	A27969	3/25/2015	3.500	8.000	20	L	Poly Bag	Solid	D007 D008 D001	paper,pvc pipe, sludge
Total Ops/325/528/528 F3				6.755	10.640	Count 4					
Total All 528				76.954	78.756	Count 34					
Grand Summary				431.775	1025.626	Count 184					

# HWTU Inventory Report - Drums

Storage Location	Drum No	Package Date	Waste (Kg)	Size (m3)	Drum Type	Waste Codes	PSN
520	PNL-14-1601	10/1/2014	17.20	0.076	UN1A2 20-gal	WT02	Radioactive material, excepted package-limited
520	17281	3/17/2015	0.30	0.006	4G Box	D001 D003	Flammable liquids, corrosive, n o s.
520	17278	2/17/2015	0.10	0.025	UN1H2 6.5-gal	D001 D003	Flammable liquids, corrosive, n o s.
Total Ops/325/520/520 CLOSET			17.60		Count	3	
Total All 520			17.60		Count	3	



# HWTU Inventory Report - Drums

Storage Location	Drum No	Package Date	Waste (Kg)	Size (m3)	Drum Type	Waste Codes	PSN
524	15612	10/25/2013	8.00	0.208	UN1A2 55-gal	D009 U151	Mercury
524	PNL-14-1544	6/2/2015	11.00	0.210	UN1A2 55-gal	D008 WSC2 WT02	Radioactive material, low specific activity (LSA-II)
524	PNL-15-1669	1/29/2015	55.60	0.208	UN1A2 55-gal	WT02	Radioactive material, low specific activity (LSA-II)
524	PNL-14-1602	5/27/2015	3.00	0.208	UN1A2 55-gal	WSC2 WT01	
524	17514	4/22/2015	2.00	0.038	UN1A2 10-gal	D001 D003	Organometallic substance, solid, pyrophoric, water-
524	17513	4/22/2015	2.85	0.038	UN1A2 10-gal	D001 D003	Lithium
Total Ops/325/524/524			82.45		Count	6	
524 F1	16804	10/22/2014	3.50	0.038	UN1A2 10-gal	D001 D003	Metallic substance, water-reactive, n.o.s.
524 F1	17072	1/21/2015	2.00	0.038	UN1A2 10-gal	D001 D003	Water-reactive solid, n.o.s.
524 F1	17071	12/17/2014	2.00	0.038	UN1A2 10-gal	D001 D003	Lithium
524 F1	17276	2/17/2015	0.03	0.006	4G Box	D001 D003	Organometallic substance, liquid, water-reactive,
524 F1	17279	2/17/2015	0.05	0.006	4G Box	D001 D003	Organometallic substance, liquid, water-reactive,
524 F1	17280	2/23/2015	0.01	0.006	4G Box	D001 D003	Lithium
524 F1	17282	3/18/2015	0.02	0.006	4G Box	D001 D003	Organometallic substance, liquid, pyrophoric, water-
524 F1	17277	2/17/2015	0.03	0.006	4G Box	D001 D003	Organometallic substance, liquid, water-reactive,
Total Ops/325/524/524 F1			7.64		Count	8	
524	PNL-15-1753	6/8/2015	180.40	0.760	UN11G	D008 F039 WSC2 WT02	Radioactive material, low specific activity (LSA-II)
Total OPS/325/524/524 Yard Box			180.40		Count	1	
Total All 524			270.49		Count	15	

# HWTU Inventory Report - Drums

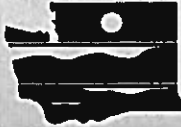
Storage Location	Drum No	Package Date	Waste (Kg)	Size (m3)	Drum Type	Waste Codes	PSN
528	PNL-15-1671	1/29/2015	142.20	0.208	UN6HA1 55-	D002 F039	Corrosive liquid, acidic, inorganic, n.o.s.
528	PNL-15-1670	1/29/2015	144.40	0.208	UN1A2 55-gal	WT02	Contains radioactive material at concentrations that
528	PNL-15-1751	4/13/2015	140.60	0.208	UN1A2 55-gal	WT02	Material Not regulated by DOT (Washington State
Total OPS/325/528/528 Room			427.20		Count	3	
528 F1	PNL-14-1537	8/7/2014	1.66	0.040	UN1A2 10-gal	D001	Radioactive material, Type A package, fissile
Total Ops/325/528/528 F1			1.66		Count	1	
528	PNL-14-1559	7/23/2014	130.00	0.208	UN1A2 55-gal	WT02	Material Not regulated by DOT (Washington State
528	PNL-15-1676	3/12/2015	48.10	0.208	UN1A2 55-gal	D005 D006 D007 D008 D011 F002 WSC2	Radioactive material, transported under special
528	PNL-15-1709	11/25/2014	143.80	0.208	UN1A2 55-gal	WT02	
528	PNL-15-1723	4/15/2015	207.40	0.208	UN6HA1 55-	D002 D004 D005 D006 D007 D008 D010 D011	
528	PNL-15-1756	6/9/2015	171.40	0.208	UN6HA1 55-	D002 D006 D007 D008 D010	
528	PNL-15-1769	6/24/2015	180.01	0.208	UN1A2 55-gal	F001 F002 F004 F005	
Total Ops/325/528/528 DSA			880.71		Count	6	
Total All 528			1309.57		Count	10	

# HWTU-TL Inventory Report - Drums

Storage Location	Drum No	Package Date	Waste (Kg)	Size (m3)	Drum Type	Waste Codes	PSN
Truck	PNL-15-1750	5/28/2015	150.00	0.760	UN11G	D004 D007 D010 D011	Hazardous waste, solid, n.o.s.
Total OPS/325/610/Truck Lock Rm 610			150.00		Count	1	
Total All 610			150.00		Count	1	

## HWTU-3714 Inventory Report - Drums

Storage Location	Drum No	Package Date	Waste (Kg)	Size (m3)	Drum Type	Waste Codes	PSN
RPL	0061278	10/12/2010	170.30	0.208	UN1A2 55-gal	F001 F002 F004 F005	Radioactive material, excepted package-limited
RPL	0075032	9/2/2010	218.00	0.208	UN1A2 55-gal	F001 F002 F004 F005	Radioactive material, excepted package-limited
RPL	0074995	7/22/2010	210.00	0.208	UN1A2 55-gal	F001 F002 F004 F005	Radioactive material, excepted package-limited
RPL	0075031	09/02/2010	244.00	0.208	UN1A2 55-gal	F001 F002 F004 F005	Radioactive material, excepted package-limited
RPL	PNL-15-1648	12/22/2014	780.00	1.810	4'x4'x4'	D008	
RPL	HC00119	1/22/2015	265.00	0.210	UN1A2 55-gal	D008	Radioactive material, low specific activity (LSA-II)
Total OPS/RMA-116/All/RPL RMA: NE pad			1887.30		Count	6	
Total All All			1887.30		Count	6	
Grand Summary			3634.96		Count	35	

 <b>WASHINGTON STATE DEPARTMENT OF ECOLOGY</b>		<b>Dangerous Waste Permit Application Part A Form</b>	
<b>Date Received</b> Month    Day    Year 1   0   0   9   2   0   0   8		<b>Reviewed by:</b> <i>Reviewed by Steve Sander</i> <b>Approved by:</b> <i>J.P. Davis</i> <b>Date:</b> 10/29/2008	
<b>I. This form is submitted to: (place an "X" in the appropriate box)</b>			
<input checked="" type="checkbox"/> Request modification to a final status permit (commonly called a "Part B" permit)			
<input type="checkbox"/> Request a change under interim status			
<input type="checkbox"/> Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).			
<input type="checkbox"/> Establish interim status because of the wastes newly regulated on:		(Date)	
List waste codes:			
<b>II. EPA/State ID Number</b>			
W A 7 8 9 0 0 0 8 9 6 7			
<b>III. Name of Facility</b>			
US Department of Energy - Hanford Facility			
<b>IV. Facility Location (Physical address not P.O. Box or Route Number)</b>			
<b>A. Street</b>			
825 Jadwin			
<b>City or Town</b>		<b>State</b>	<b>ZIP Code</b>
Richland		WA	99352
<b>County Code (if known)</b>	<b>County Name</b>		
0 0 5	Benton		
<b>B. Land Type</b>	<b>C. Geographic Location</b> Latitude (degrees, mins, secs)    Longitude (degrees, mins, secs)	<b>D. Facility Existence Date</b> Month    Day    Year	
F	Refer to TOPO Map (Section XV.)	0 3    2 2    1 9 4 3	
<b>V. Facility Mailing Address</b>			
<b>Street or P.O. Box</b>			
P.O. Box 550			
<b>City or Town</b>		<b>State</b>	<b>ZIP Code</b>
Richland		WA	99352

<b>VI. Facility contact (Person to be contacted regarding waste activities at facility)</b>											
<b>Name (last)</b>						<b>(first)</b>					
Klein						Keith					
<b>Job Title</b>						<b>Phone Number (area code and number)</b>					
Manager						(509) 376-7395					
<b>Contact Address</b>											
<b>Street or P.O. Box</b>											
P.O. Box 550											
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>			
Richland						WA		99352			
<b>VII. Facility Operator Information</b>											
<b>A. Name</b>						<b>Phone Number (area code and number)</b>					
Department of Energy Owner/Operator						(509) 376-7395					
Pacific Northwest National Laboratory Co-Operator for 325 HWTUs*						(509) 376-1187*					
<b>Street or P.O. Box</b>											
P.O. Box 550*											
P.O. Box 999											
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>			
Richland						WA		99352			
<b>B. Operator Type</b>		F									
<b>C. Does the name in VII.A reflect a proposed change in operator?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
If yes, provide the scheduled date for the change:						<b>Month</b>		<b>Day</b>		<b>Year</b>	
<b>D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>VIII. Facility Owner Information</b>											
<b>A. Name</b>						<b>Phone Number (area code and number)</b>					
Keith A. Klein, Operator/Facility-Property Owner						(509) 376-7395					
<b>Street or P.O. Box</b>											
P.O. Box 550											
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>			
Richland						WA		99352			
<b>B. Operator Type</b>		F									
<b>C. Does the name in VII.A reflect a proposed change in operator?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
If yes, provide the scheduled date for the change:						<b>Month</b>		<b>Day</b>		<b>Year</b>	
<b>IX. NAICS Codes (5/6 digit codes)</b>											
<b>A. First</b>						<b>B. Second</b>					
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences					
<b>C. Third</b>						<b>D. Fourth</b>					

X. Other Environmental Permits (see Instructions)														
A. Permit Type			B. Permit Number											C. Description
	E		A	I	R	-	0	2	-	1	2	0	2	WAC 246-247, Non radioactive Air, 40 CFR 61, Subpart H, NESHAPS
	E		D	E	9	8	N	W	P	-	0	0	3	WAC 173-400, General Regulations for Air Pollution Sources, WAC 173-460, Controls for New Sources of Toxic Air Pollutants

**XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)**

The 325 Hazardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory (SAL), which includes Rooms 32, 200, 201, 202, and 203 of the 325 Building; and the Hazardous Waste Treatment Unit (HWTU) encompassing Rooms 520, 524, and 528 of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 12, 000 liters of dangerous and/or mixed waste may be stored in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04).

A maximum of 1,218 liters of dangerous and/or mixed waste may be stored in tanks in the 325 HWTUs (S02). A maximum of 1,218 liters per day of dangerous and/or mixed waste may be treated in tanks in the 325 HWTUs (T01).

Dangerous and/or mixed waste treatments are generally conducted as small bench-scale operations except for in-tank treatments. Treatment processes utilized at the 325 HWTUs may include any of the types of treatment described in WAC 173-303-380(2)(d), Table 2, Section 2 except for the following: incineration technologies (T06-T10), large-scale biological treatment (T68, T72, and T73), boiler and industrial furnace-based treatment (T80-T93), and treatment in containment buildings (T94).

Routine dangerous and/or mixed waste treatment that will be conducted in the 325 HWTUs will include pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, solvent extraction, solids washing, phase separation, catalytic destruction, and solidification/stabilization. These waste treatments will be conducted on small quantities of diverse radioactive, dangerous, and/or mixed wastes generated from ongoing research and development and analytical chemistry activities. Waste to be handled in the 325 HWTUs will include listed waste, waste from non-specific sources, characteristic waste, and state-only criteria waste. Multi-source leachate (F039) is included as a waste derived from non-specific source waste F001 through F005.



**EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below):** A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ* vitrification.

Section XII. Process Codes and Design Capacities							Section XIII. Other Process Codes									
Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure (enter code)							1. Amount	2. Unit of Measure (enter code)		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	1	12,000	L	001		1							
	2	S	0	2	1,218	L	001		2	T	0	4	1,514	V	1	Treatment in containers
	3	T	0	1	1,218	V	001		3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							



**XIV. Description of Dangerous Wastes**

**Example for completing this section:** A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Processes										
							(1) Process Codes							(2) Process Description [If a code is not entered in D (1)]			
X 1	D	0	0	2	400	P	S	0	1	T	0	1					
X 2	D	0	0	1	100	P	S	0	2	T	0	1					
X 3	D	0	0	2												Included with above	
1	D	0	0	1	82,500 [60,000 (S01); 22,500 (T04)]	K	S	0	1	T	0	4				Includes Debris	
2	D	0	0	2		K	S	0	1	T	0	4				Includes Debris	
3	D	0	0	3		K	S	0	1	T	0	4				Includes Debris	
4	D	0	0	4		K	S	0	1	T	0	4				Includes Debris	
5	D	0	0	5		K	S	0	1	T	0	4				Includes Debris	
6	D	0	0	6		K	S	0	1	T	0	4				Includes Debris	
7	D	0	0	7		K	S	0	1	T	0	4				Includes Debris	
8	D	0	0	8		K	S	0	1	T	0	4				Includes Debris	
9	D	0	0	9		K	S	0	1	T	0	4				Includes Debris	
10	D	0	1	0		K	S	0	1	T	0	4				Includes Debris	
11	D	0	1	1		K	S	0	1	T	0	4				Includes Debris	
12	D	0	1	2		K	S	0	1	T	0	4				Includes Debris	
13	D	0	1	3		K	S	0	1	T	0	4				Includes Debris	
14	D	0	1	4		K	S	0	1	T	0	4				Includes Debris	
15	D	0	1	5		K	S	0	1	T	0	4				Includes Debris	
16	D	0	1	6		K	S	0	1	T	0	4				Includes Debris	
17	D	0	1	7		K	S	0	1	T	0	4				Includes Debris	
18	D	0	1	8		K	S	0	1	T	0	4				Includes Debris	
19	D	0	1	9		K	S	0	1	T	0	4				Includes Debris	
20	D	0	2	0		K	S	0	1	T	0	4				Includes Debris	
21	D	0	2	1		K	S	0	1	T	0	4				Includes Debris	
22	D	0	2	2		K	S	0	1	T	0	4				Includes Debris	
23	D	0	2	3		K	S	0	1	T	0	4				Includes Debris	
24	D	0	2	4		K	S	0	1	T	0	4				Includes Debris	
25	D	0	2	5		K	S	0	1	T	0	4				Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No.					B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process										(2) Process Description [If a code is not entered in D (1)]
								(1) Process Codes										
26	D	0	2	6		K	S	0	1	T	0	4				Includes Debris		
27	D	0	2	7		K	S	0	1	T	0	4				Includes Debris		
28	D	0	2	8		K	S	0	1	T	0	4				Includes Debris		
29	D	0	2	9		K	S	0	1	T	0	4				Includes Debris		
30	D	0	3	0		K	S	0	1	T	0	4				Includes Debris		
31	D	0	3	1		K	S	0	1	T	0	4				Includes Debris		
32	D	0	3	2		K	S	0	1	T	0	4				Includes Debris		
33	D	0	3	3		K	S	0	1	T	0	4				Includes Debris		
34	D	0	3	4		K	S	0	1	T	0	4				Includes Debris		
35	D	0	3	5		K	S	0	1	T	0	4				Includes Debris		
36	D	0	3	6		K	S	0	1	T	0	4				Includes Debris		
37	D	0	3	7		K	S	0	1	T	0	4				Includes Debris		
38	D	0	3	8		K	S	0	1	T	0	4				Includes Debris		
39	D	0	3	9		K	S	0	1	T	0	4				Includes Debris		
40	D	0	4	0		K	S	0	1	T	0	4				Includes Debris		
41	D	0	4	1		K	S	0	1	T	0	4				Includes Debris		
42	D	0	4	2		K	S	0	1	T	0	4				Includes Debris		
43	D	0	4	3		K	S	0	1	T	0	4				Includes Debris		
44	F	0	0	1		K	S	0	1	T	0	4				Includes Debris		
45	F	0	0	2		K	S	0	1	T	0	4				Includes Debris		
46	F	0	0	3		K	S	0	1	T	0	4				Includes Debris		
47	F	0	0	4		K	S	0	1	T	0	4				Includes Debris		
48	F	0	0	5		K	S	0	1	T	0	4				Includes Debris		
49	F	0	2	7		K	S	0	1	T	0	4				Includes Debris		
50	F	0	3	9		K	S	0	1	T	0	4				Includes Debris		
51	P	0	0	1		K	S	0	1	T	0	4				Includes Debris		
52	P	0	0	2		K	S	0	1	T	0	4				Includes Debris		
53	P	0	0	3		K	S	0	1	T	0	4				Includes Debris		
54	P	0	0	4		K	S	0	1	T	0	4				Includes Debris		
55	P	0	0	5		K	S	0	1	T	0	4				Includes Debris		
56	P	0	0	6		K	S	0	1	T	0	4				Includes Debris		
57	P	0	0	7		K	S	0	1	T	0	4				Includes Debris		
58	P	0	0	8		K	S	0	1	T	0	4				Includes Debris		
59	P	0	0	9		K	S	0	1	T	0	4				Includes Debris		
60	P	0	1	0		K	S	0	1	T	0	4				Includes Debris		

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

61	P	0	1	1		K	S	0	1	T	0	4				Includes Debris
62	P	0	1	2		K	S	0	1	T	0	4				Includes Debris
63	P	0	1	4		K	S	0	1	T	0	4				Includes Debris
64	P	0	1	5		K	S	0	1	T	0	4				Includes Debris
65	P	0	1	6		K	S	0	1	T	0	4				Includes Debris
66	P	0	1	7		K	S	0	1	T	0	4				Includes Debris
67	P	0	1	8		K	S	0	1	T	0	4				Includes Debris
68	P	0	2	0		K	S	0	1	T	0	4				Includes Debris
69	P	0	2	1		K	S	0	1	T	0	4				Includes Debris
70	P	0	2	2		K	S	0	1	T	0	4				Includes Debris
71	P	0	2	3		K	S	0	1	T	0	4				Includes Debris
72	P	0	2	4		K	S	0	1	T	0	4				Includes Debris
73	P	0	2	6		K	S	0	1	T	0	4				Includes Debris
74	P	0	2	7		K	S	0	1	T	0	4				Includes Debris
75	P	0	2	8		K	S	0	1	T	0	4				Includes Debris
76	P	0	2	9		K	S	0	1	T	0	4				Includes Debris
77	P	0	3	0		K	S	0	1	T	0	4				Includes Debris
78	P	0	3	1		K	S	0	1	T	0	4				Includes Debris
79	P	0	3	3		K	S	0	1	T	0	4				Includes Debris
80	P	0	3	4		K	S	0	1	T	0	4				Includes Debris
81	P	0	3	6		K	S	0	1	T	0	4				Includes Debris
82	P	0	3	7		K	S	0	1	T	0	4				Includes Debris
83	P	0	3	8		K	S	0	1	T	0	4				Includes Debris
84	P	0	3	9		K	S	0	1	T	0	4				Includes Debris
85	P	0	4	0		K	S	0	1	T	0	4				Includes Debris
86	P	0	4	1		K	S	0	1	T	0	4				Includes Debris
87	P	0	4	2		K	S	0	1	T	0	4				Includes Debris
88	P	0	4	3		K	S	0	1	T	0	4				Includes Debris
89	P	0	4	4		K	S	0	1	T	0	4				Includes Debris
90	P	0	4	5		K	S	0	1	T	0	4				Includes Debris
91	P	0	4	6		K	S	0	1	T	0	4				Includes Debris
92	P	0	4	7		K	S	0	1	T	0	4				Includes Debris
93	P	0	4	8		K	S	0	1	T	0	4				Includes Debris
94	P	0	4	9		K	S	0	1	T	0	4				Includes Debris
95	P	0	5	0		K	S	0	1	T	0	4				Includes Debris
96	P	0	5	1		K	S	0	1	T	0	4				Includes Debris
97	P	0	5	4		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

98	P	0	5	6		K	S	0	1	T	0	4				Includes Debris
99	P	0	5	7		K	S	0	1	T	0	4				Includes Debris
100	P	0	5	8		K	S	0	1	T	0	4				Includes Debris
101	P	0	5	9		K	S	0	1	T	0	4				Includes Debris
102	P	0	6	0		K	S	0	1	T	0	4				Includes Debris
103	P	0	6	2		K	S	0	1	T	0	4				Includes Debris
104	P	0	6	3		K	S	0	1	T	0	4				Includes Debris
105	P	0	6	4		K	S	0	1	T	0	4				Includes Debris
106	P	0	6	5		K	S	0	1	T	0	4				Includes Debris
107	P	0	6	6		K	S	0	1	T	0	4				Includes Debris
108	P	0	6	7		K	S	0	1	T	0	4				Includes Debris
109	P	0	6	8		K	S	0	1	T	0	4				Includes Debris
110	P	0	6	9		K	S	0	1	T	0	4				Includes Debris
111	P	0	7	0		K	S	0	1	T	0	4				Includes Debris
112	P	0	7	1		K	S	0	1	T	0	4				Includes Debris
113	P	0	7	2		K	S	0	1	T	0	4				Includes Debris
114	P	0	7	3		K	S	0	1	T	0	4				Includes Debris
115	P	0	7	4		K	S	0	1	T	0	4				Includes Debris
116	P	0	7	5		K	S	0	1	T	0	4				Includes Debris
117	P	0	7	6		K	S	0	1	T	0	4				Includes Debris
118	P	0	7	7		K	S	0	1	T	0	4				Includes Debris
119	P	0	7	8		K	S	0	1	T	0	4				Includes Debris
120	P	0	8	1		K	S	0	1	T	0	4				Includes Debris
121	P	0	8	2		K	S	0	1	T	0	4				Includes Debris
122	P	0	8	4		K	S	0	1	T	0	4				Includes Debris
123	P	0	8	5		K	S	0	1	T	0	4				Includes Debris
124	P	0	8	7		K	S	0	1	T	0	4				Includes Debris
125	P	0	8	8		K	S	0	1	T	0	4				Includes Debris
126	P	0	8	9		K	S	0	1	T	0	4				Includes Debris
127	P	0	9	2		K	S	0	1	T	0	4				Includes Debris
128	P	0	9	3		K	S	0	1	T	0	4				Includes Debris
129	P	0	9	4		K	S	0	1	T	0	4				Includes Debris
130	P	0	9	5		K	S	0	1	T	0	4				Includes Debris
131	P	0	9	6		K	S	0	1	T	0	4				Includes Debris
132	P	0	9	7		K	S	0	1	T	0	4				Includes Debris
133	P	0	9	8		K	S	0	1	T	0	4				Includes Debris
134	P	0	9	9		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

135	P	1	0	1		K	S	0	1	T	0	4				Includes Debris
136	P	1	0	2		K	S	0	1	T	0	4				Includes Debris
137	P	1	0	3		K	S	0	1	T	0	4				Includes Debris
138	P	1	0	4		K	S	0	1	T	0	4				Includes Debris
139	P	1	0	5		K	S	0	1	T	0	4				Includes Debris
140	P	1	0	6		K	S	0	1	T	0	4				Includes Debris
141	P	1	0	8		K	S	0	1	T	0	4				Includes Debris
142	P	1	0	9		K	S	0	1	T	0	4				Includes Debris
143	P	1	1	0		K	S	0	1	T	0	4				Includes Debris
144	P	1	1	1		K	S	0	1	T	0	4				Includes Debris
145	P	1	1	2		K	S	0	1	T	0	4				Includes Debris
146	P	1	1	3		K	S	0	1	T	0	4				Includes Debris
147	P	1	1	4		K	S	0	1	T	0	4				Includes Debris
148	P	1	1	5		K	S	0	1	T	0	4				Includes Debris
149	P	1	1	6		K	S	0	1	T	0	4				Includes Debris
150	P	1	1	8		K	S	0	1	T	0	4				Includes Debris
151	P	1	1	9		K	S	0	1	T	0	4				Includes Debris
152	P	1	2	0		K	S	0	1	T	0	4				Includes Debris
153	P	1	2	1		K	S	0	1	T	0	4				Includes Debris
154	P	1	2	2		K	S	0	1	T	0	4				Includes Debris
155	P	1	2	3		K	S	0	1	T	0	4				Includes Debris
156	P	1	2	7		K	S	0	1	T	0	4				Includes Debris
157	P	1	2	8		K	S	0	1	T	0	4				Includes Debris
158	P	1	8	5		K	S	0	1	T	0	4				Includes Debris
159	P	1	8	8		K	S	0	1	T	0	4				Includes Debris
160	P	1	8	9		K	S	0	1	T	0	4				Includes Debris
161	P	1	9	0		K	S	0	1	T	0	4				Includes Debris
162	P	1	9	1		K	S	0	1	T	0	4				Includes Debris
163	P	1	9	2		K	S	0	1	T	0	4				Includes Debris
164	P	1	9	4		K	S	0	1	T	0	4				Includes Debris
165	P	1	9	6		K	S	0	1	T	0	4				Includes Debris
166	P	1	9	7		K	S	0	1	T	0	4				Includes Debris
167	P	1	9	8		K	S	0	1	T	0	4				Includes Debris
168	P	1	9	9		K	S	0	1	T	0	4				Includes Debris
169	P	2	0	1		K	S	0	1	T	0	4				Includes Debris
170	P	2	0	2		K	S	0	1	T	0	4				Includes Debris
171	P	2	0	3		K	S	0	1	T	0	4				Includes Debris



EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

172	P	2	0	4		K	S	0	1	T	0	4				Includes Debris
173	P	2	0	5		K	S	0	1	T	0	4				Includes Debris
174	U	0	0	1		K	S	0	1	T	0	4				Includes Debris
175	U	0	0	2		K	S	0	1	T	0	4				Includes Debris
176	U	0	0	3		K	S	0	1	T	0	4				Includes Debris
177	U	0	0	4		K	S	0	1	T	0	4				Includes Debris
178	U	0	0	5		K	S	0	1	T	0	4				Includes Debris
179	U	0	0	6		K	S	0	1	T	0	4				Includes Debris
180	U	0	0	7		K	S	0	1	T	0	4				Includes Debris
181	U	0	0	8		K	S	0	1	T	0	4				Includes Debris
182	U	0	0	9		K	S	0	1	T	0	4				Includes Debris
183	U	0	1	0		K	S	0	1	T	0	4				Includes Debris
184	U	0	1	1		K	S	0	1	T	0	4				Includes Debris
185	U	0	1	2		K	S	0	1	T	0	4				Includes Debris
186	U	0	1	4		K	S	0	1	T	0	4				Includes Debris
187	U	0	1	5		K	S	0	1	T	0	4				Includes Debris
188	U	0	1	6		K	S	0	1	T	0	4				Includes Debris
189	U	0	1	7		K	S	0	1	T	0	4				Includes Debris
190	U	0	1	8		K	S	0	1	T	0	4				Includes Debris
191	U	0	1	9		K	S	0	1	T	0	4				Includes Debris
192	U	0	2	0		K	S	0	1	T	0	4				Includes Debris
193	U	0	2	1		K	S	0	1	T	0	4				Includes Debris
194	U	0	2	2		K	S	0	1	T	0	4				Includes Debris
195	U	0	2	3		K	S	0	1	T	0	4				Includes Debris
196	U	0	2	4		K	S	0	1	T	0	4				Includes Debris
197	U	0	2	5		K	S	0	1	T	0	4				Includes Debris
198	U	0	2	6		K	S	0	1	T	0	4				Includes Debris
199	U	0	2	7		K	S	0	1	T	0	4				Includes Debris
200	U	0	2	8		K	S	0	1	T	0	4				Includes Debris
201	U	0	2	9		K	S	0	1	T	0	4				Includes Debris
202	U	0	3	0		K	S	0	1	T	0	4				Includes Debris
203	U	0	3	1		K	S	0	1	T	0	4				Includes Debris
204	U	0	3	2		K	S	0	1	T	0	4				Includes Debris
205	U	0	3	3		K	S	0	1	T	0	4				Includes Debris
206	U	0	3	4		K	S	0	1	T	0	4				Includes Debris
207	U	0	3	5		K	S	0	1	T	0	4				Includes Debris
208	U	0	3	6		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

209	U	0	3	7		K	S	0	1	T	0	4				Includes Debris
210	U	0	3	8		K	S	0	1	T	0	4				Includes Debris
211	U	0	3	9		K	S	0	1	T	0	4				Includes Debris
212	U	0	4	1		K	S	0	1	T	0	4				Includes Debris
213	U	0	4	2		K	S	0	1	T	0	4				Includes Debris
214	U	0	4	3		K	S	0	1	T	0	4				Includes Debris
215	U	0	4	4		K	S	0	1	T	0	4				Includes Debris
216	U	0	4	5		K	S	0	1	T	0	4				Includes Debris
217	U	0	4	6		K	S	0	1	T	0	4				Includes Debris
218	U	0	4	7		K	S	0	1	T	0	4				Includes Debris
219	U	0	4	8		K	S	0	1	T	0	4				Includes Debris
220	U	0	4	9		K	S	0	1	T	0	4				Includes Debris
221	U	0	5	0		K	S	0	1	T	0	4				Includes Debris
222	U	0	5	1		K	S	0	1	T	0	4				Includes Debris
223	U	0	5	2		K	S	0	1	T	0	4				Includes Debris
224	U	0	5	3		K	S	0	1	T	0	4				Includes Debris
225	U	0	5	5		K	S	0	1	T	0	4				Includes Debris
226	U	0	5	6		K	S	0	1	T	0	4				Includes Debris
227	U	0	5	7		K	S	0	1	T	0	4				Includes Debris
228	U	0	5	8		K	S	0	1	T	0	4				Includes Debris
229	U	0	5	9		K	S	0	1	T	0	4				Includes Debris
230	U	0	6	0		K	S	0	1	T	0	4				Includes Debris
231	U	0	6	1		K	S	0	1	T	0	4				Includes Debris
232	U	0	6	2		K	S	0	1	T	0	4				Includes Debris
233	U	0	6	3		K	S	0	1	T	0	4				Includes Debris
234	U	0	6	4		K	S	0	1	T	0	4				Includes Debris
235	U	0	6	6		K	S	0	1	T	0	4				Includes Debris
236	U	0	6	7		K	S	0	1	T	0	4				Includes Debris
237	U	0	6	8		K	S	0	1	T	0	4				Includes Debris
238	U	0	6	9		K	S	0	1	T	0	4				Includes Debris
239	U	0	7	0		K	S	0	1	T	0	4				Includes Debris
240	U	0	7	1		K	S	0	1	T	0	4				Includes Debris
241	U	0	7	2		K	S	0	1	T	0	4				Includes Debris
242	U	0	7	3		K	S	0	1	T	0	4				Includes Debris
243	U	0	7	4		K	S	0	1	T	0	4				Includes Debris
244	U	0	7	6		K	S	0	1	T	0	4				Includes Debris
245	U	0	7	7		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

246	U	0	7	8		K	S	0	1	T	0	4				Includes Debris
247	U	0	7	9		K	S	0	1	T	0	4				Includes Debris
248	U	0	8	0		K	S	0	1	T	0	4				Includes Debris
249	U	0	8	1		K	S	0	1	T	0	4				Includes Debris
250	U	0	8	2		K	S	0	1	T	0	4				Includes Debris
251	U	0	8	3		K	S	0	1	T	0	4				Includes Debris
252	U	0	8	4		K	S	0	1	T	0	4				Includes Debris
253	U	0	8	5		K	S	0	1	T	0	4				Includes Debris
254	U	0	8	6		K	S	0	1	T	0	4				Includes Debris
255	U	0	8	7		K	S	0	1	T	0	4				Includes Debris
256	U	0	8	8		K	S	0	1	T	0	4				Includes Debris
257	U	0	8	9		K	S	0	1	T	0	4				Includes Debris
258	U	0	9	0		K	S	0	1	T	0	4				Includes Debris
259	U	0	9	1		K	S	0	1	T	0	4				Includes Debris
260	U	0	9	2		K	S	0	1	T	0	4				Includes Debris
261	U	0	9	3		K	S	0	1	T	0	4				Includes Debris
262	U	0	9	4		K	S	0	1	T	0	4				Includes Debris
263	U	0	9	5		K	S	0	1	T	0	4				Includes Debris
264	U	0	9	6		K	S	0	1	T	0	4				Includes Debris
265	U	0	9	7		K	S	0	1	T	0	4				Includes Debris
266	U	0	9	8		K	S	0	1	T	0	4				Includes Debris
267	U	0	9	9		K	S	0	1	T	0	4				Includes Debris
268	U	1	0	1		K	S	0	1	T	0	4				Includes Debris
269	U	1	0	2		K	S	0	1	T	0	4				Includes Debris
270	U	1	0	3		K	S	0	1	T	0	4				Includes Debris
271	U	1	0	5		K	S	0	1	T	0	4				Includes Debris
272	U	1	0	6		K	S	0	1	T	0	4				Includes Debris
273	U	1	0	7		K	S	0	1	T	0	4				Includes Debris
274	U	1	0	8		K	S	0	1	T	0	4				Includes Debris
275	U	1	0	9		K	S	0	1	T	0	4				Includes Debris
276	U	1	1	0		K	S	0	1	T	0	4				Includes Debris
277	U	1	1	1		K	S	0	1	T	0	4				Includes Debris
278	U	1	1	2		K	S	0	1	T	0	4				Includes Debris
279	U	1	1	3		K	S	0	1	T	0	4				Includes Debris
280	U	1	1	4		K	S	0	1	T	0	4				Includes Debris
281	U	1	1	5		K	S	0	1	T	0	4				Includes Debris
282	U	1	1	6		K	S	0	1	T	0	4				Includes Debris



EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

283	U	1	1	7		K	S	0	1	T	0	4				Includes Debris
284	U	1	1	8		K	S	0	1	T	0	4				Includes Debris
285	U	1	1	9		K	S	0	1	T	0	4				Includes Debris
286	U	1	2	0		K	S	0	1	T	0	4				Includes Debris
287	U	1	2	1		K	S	0	1	T	0	4				Includes Debris
288	U	1	2	2		K	S	0	1	T	0	4				Includes Debris
289	U	1	2	3		K	S	0	1	T	0	4				Includes Debris
290	U	1	2	4		K	S	0	1	T	0	4				Includes Debris
291	U	1	2	5		K	S	0	1	T	0	4				Includes Debris
292	U	1	2	6		K	S	0	1	T	0	4				Includes Debris
293	U	1	2	7		K	S	0	1	T	0	4				Includes Debris
294	U	1	2	8		K	S	0	1	T	0	4				Includes Debris
295	U	1	2	9		K	S	0	1	T	0	4				Includes Debris
296	U	1	3	0		K	S	0	1	T	0	4				Includes Debris
297	U	1	3	1		K	S	0	1	T	0	4				Includes Debris
298	U	1	3	2		K	S	0	1	T	0	4				Includes Debris
299	U	1	3	3		K	S	0	1	T	0	4				Includes Debris
300	U	1	3	4		K	S	0	1	T	0	4				Includes Debris
301	U	1	3	5		K	S	0	1	T	0	4				Includes Debris
302	U	1	3	6		K	S	0	1	T	0	4				Includes Debris
303	U	1	3	7		K	S	0	1	T	0	4				Includes Debris
304	U	1	3	8		K	S	0	1	T	0	4				Includes Debris
305	U	1	4	0		K	S	0	1	T	0	4				Includes Debris
306	U	1	4	1		K	S	0	1	T	0	4				Includes Debris
307	U	1	4	2		K	S	0	1	T	0	4				Includes Debris
308	U	1	4	3		K	S	0	1	T	0	4				Includes Debris
309	U	1	4	4		K	S	0	1	T	0	4				Includes Debris
310	U	1	4	5		K	S	0	1	T	0	4				Includes Debris
311	U	1	4	6		K	S	0	1	T	0	4				Includes Debris
312	U	1	4	7		K	S	0	1	T	0	4				Includes Debris
313	U	1	4	8		K	S	0	1	T	0	4				Includes Debris
314	U	1	4	9		K	S	0	1	T	0	4				Includes Debris
315	U	1	5	0		K	S	0	1	T	0	4				Includes Debris
316	U	1	5	1		K	S	0	1	T	0	4				Includes Debris
317	U	1	5	2		K	S	0	1	T	0	4				Includes Debris
318	U	1	5	3		K	S	0	1	T	0	4				Includes Debris
319	U	1	5	4		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

320	U	1	5	5		K	S	0	1	T	0	4				Includes Debris
321	U	1	5	6		K	S	0	1	T	0	4				Includes Debris
322	U	1	5	7		K	S	0	1	T	0	4				Includes Debris
323	U	1	5	8		K	S	0	1	T	0	4				Includes Debris
324	U	1	5	9		K	S	0	1	T	0	4				Includes Debris
325	U	1	6	0		K	S	0	1	T	0	4				Includes Debris
326	U	1	6	1		K	S	0	1	T	0	4				Includes Debris
327	U	1	6	2		K	S	0	1	T	0	4				Includes Debris
328	U	1	6	3		K	S	0	1	T	0	4				Includes Debris
329	U	1	6	4		K	S	0	1	T	0	4				Includes Debris
330	U	1	6	5		K	S	0	1	T	0	4				Includes Debris
331	U	1	6	6		K	S	0	1	T	0	4				Includes Debris
332	U	1	6	7		K	S	0	1	T	0	4				Includes Debris
333	U	1	6	8		K	S	0	1	T	0	4				Includes Debris
334	U	1	6	9		K	S	0	1	T	0	4				Includes Debris
335	U	1	7	0		K	S	0	1	T	0	4				Includes Debris
336	U	1	7	1		K	S	0	1	T	0	4				Includes Debris
337	U	1	7	2		K	S	0	1	T	0	4				Includes Debris
338	U	1	7	3		K	S	0	1	T	0	4				Includes Debris
339	U	1	7	4		K	S	0	1	T	0	4				Includes Debris
340	U	1	7	6		K	S	0	1	T	0	4				Includes Debris
341	U	1	7	7		K	S	0	1	T	0	4				Includes Debris
342	U	1	7	8		K	S	0	1	T	0	4				Includes Debris
343	U	1	7	9		K	S	0	1	T	0	4				Includes Debris
344	U	1	8	0		K	S	0	1	T	0	4				Includes Debris
345	U	1	8	1		K	S	0	1	T	0	4				Includes Debris
346	U	1	8	2		K	S	0	1	T	0	4				Includes Debris
347	U	1	8	3		K	S	0	1	T	0	4				Includes Debris
348	U	1	8	4		K	S	0	1	T	0	4				Includes Debris
349	U	1	8	5		K	S	0	1	T	0	4				Includes Debris
350	U	1	8	6		K	S	0	1	T	0	4				Includes Debris
351	U	1	8	7		K	S	0	1	T	0	4				Includes Debris
352	U	1	8	8		K	S	0	1	T	0	4				Includes Debris
353	U	1	8	9		K	S	0	1	T	0	4				Includes Debris
354	U	1	9	0		K	S	0	1	T	0	4				Includes Debris
355	U	1	9	1		K	S	0	1	T	0	4				Includes Debris
356	U	1	9	2		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

357	U	1	9	3		K	S	0	1	T	0	4				Includes Debris
358	U	1	9	4		K	S	0	1	T	0	4				Includes Debris
359	U	1	9	6		K	S	0	1	T	0	4				Includes Debris
360	U	1	9	7		K	S	0	1	T	0	4				Includes Debris
361	U	2	0	0		K	S	0	1	T	0	4				Includes Debris
362	U	2	0	1		K	S	0	1	T	0	4				Includes Debris
363	U	2	0	2		K	S	0	1	T	0	4				Includes Debris
364	U	2	0	3		K	S	0	1	T	0	4				Includes Debris
365	U	2	0	4		K	S	0	1	T	0	4				Includes Debris
366	U	2	0	5		K	S	0	1	T	0	4				Includes Debris
367	U	2	0	6		K	S	0	1	T	0	4				Includes Debris
368	U	2	0	7		K	S	0	1	T	0	4				Includes Debris
369	U	2	0	8		K	S	0	1	T	0	4				Includes Debris
370	U	2	0	9		K	S	0	1	T	0	4				Includes Debris
371	U	2	1	0		K	S	0	1	T	0	4				Includes Debris
372	U	2	1	1		K	S	0	1	T	0	4				Includes Debris
373	U	2	1	3		K	S	0	1	T	0	4				Includes Debris
374	U	2	1	4		K	S	0	1	T	0	4				Includes Debris
375	U	2	1	5		K	S	0	1	T	0	4				Includes Debris
376	U	2	1	6		K	S	0	1	T	0	4				Includes Debris
377	U	2	1	7		K	S	0	1	T	0	4				Includes Debris
378	U	2	1	8		K	S	0	1	T	0	4				Includes Debris
379	U	2	1	9		K	S	0	1	T	0	4				Includes Debris
380	U	2	2	0		K	S	0	1	T	0	4				Includes Debris
381	U	2	2	1		K	S	0	1	T	0	4				Includes Debris
382	U	2	2	2		K	S	0	1	T	0	4				Includes Debris
383	U	2	2	3		K	S	0	1	T	0	4				Includes Debris
384	U	2	2	5		K	S	0	1	T	0	4				Includes Debris
385	U	2	2	6		K	S	0	1	T	0	4				Includes Debris
386	U	2	2	7		K	S	0	1	T	0	4				Includes Debris
387	U	2	2	8		K	S	0	1	T	0	4				Includes Debris
388	U	2	3	4		K	S	0	1	T	0	4				Includes Debris
389	U	2	3	5		K	S	0	1	T	0	4				Includes Debris
390	U	2	3	6		K	S	0	1	T	0	4				Includes Debris
391	U	2	3	7		K	S	0	1	T	0	4				Includes Debris
392	U	2	3	8		K	S	0	1	T	0	4				Includes Debris
393	U	2	3	9		K	S	0	1	T	0	4				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

394	U	2	4	0		K	S	0	1	T	0	4				Includes Debris
395	U	2	4	3		K	S	0	1	T	0	4				Includes Debris
396	U	2	4	4		K	S	0	1	T	0	4				Includes Debris
397	U	2	4	6		K	S	0	1	T	0	4				Includes Debris
398	U	2	4	7		K	S	0	1	T	0	4				Includes Debris
399	U	2	4	8		K	S	0	1	T	0	4				Includes Debris
400	U	2	4	9		K	S	0	1	T	0	4				Includes Debris
401	U	2	7	1		K	S	0	1	T	0	4				Includes Debris
402	U	2	7	8		K	S	0	1	T	0	4				Includes Debris
403	U	2	7	9		K	S	0	1	T	0	4				Includes Debris
404	U	2	8	0		K	S	0	1	T	0	4				Includes Debris
405	U	3	2	8		K	S	0	1	T	0	4				Includes Debris
406	U	3	5	3		K	S	0	1	T	0	4				Includes Debris
407	U	3	5	9		K	S	0	1	T	0	4				Includes Debris
408	U	3	6	4		K	S	0	1	T	0	4				Includes Debris
409	U	3	6	7		K	S	0	1	T	0	4				Includes Debris
410	U	3	7	2		K	S	0	1	T	0	4				Includes Debris
411	U	3	7	3		K	S	0	1	T	0	4				Includes Debris
412	U	3	8	7		K	S	0	1	T	0	4				Includes Debris
413	U	3	8	9		K	S	0	1	T	0	4				Includes Debris
414	U	3	9	4		K	S	0	1	T	0	4				Includes Debris
415	U	3	9	5		K	S	0	1	T	0	4				Includes Debris
416	U	4	0	4		K	S	0	1	T	0	4				Includes Debris
417	U	4	0	9		K	S	0	1	T	0	4				Includes Debris
418	U	4	1	0		K	S	0	1	T	0	4				Includes Debris
419	U	4	1	1		K	S	0	1	T	0	4				Includes Debris
420	W	P	C	B		K	S	0	1	T	0	4				Includes Debris
421	W	P	0	1		K	S	0	1	T	0	4				Includes Debris
422	W	P	0	2		K	S	0	1	T	0	4				Includes Debris
423	W	P	0	3		K	S	0	1	T	0	4				Includes Debris
424	W	T	0	1		K	S	0	1	T	0	4				Includes Debris
425	W	T	0	2		K	S	0	1	T	0	4				Includes Debris
426	W	S	C	2		K	S	0	1	T	0	4				Includes Debris
427	D	0	0	1	10,000	K	S	0	2	T	0	1				
428	D	0	0	2		K	S	0	2	T	0	1				
429	D	0	0	3		K	S	0	2	T	0	1				
430	D	0	0	4		K	S	0	2	T	0	1				

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

431	D	0	0	5		K	S	0	2	T	0	1				
432	D	0	0	6		K	S	0	2	T	0	1				
433	D	0	0	7		K	S	0	2	T	0	1				
434	D	0	0	8		K	S	0	2	T	0	1				
435	D	0	0	9		K	S	0	2	T	0	1				
436	D	0	1	0		K	S	0	2	T	0	1				
437	D	0	1	1		K	S	0	2	T	0	1				
438	D	0	1	8		K	S	0	2	T	0	1				
439	D	0	1	9		K	S	0	2	T	0	1				
440	D	0	2	2		K	S	0	2	T	0	1				
441	D	0	2	8		K	S	0	2	T	0	1				
442	D	0	2	9		K	S	0	2	T	0	1				
443	D	0	3	0		K	S	0	2	T	0	1				
444	D	0	3	3		K	S	0	2	T	0	1				
445	D	0	3	4		K	S	0	2	T	0	1				
446	D	0	3	5		K	S	0	2	T	0	1				
447	D	0	3	6		K	S	0	2	T	0	1				
448	D	0	3	8		K	S	0	2	T	0	1				
449	D	0	3	9		K	S	0	2	T	0	1				
450	D	0	4	0		K	S	0	2	T	0	1				
451	D	0	4	1		K	S	0	2	T	0	1				
452	D	0	4	3		K	S	0	2	T	0	1				
453	F	0	0	1		K	S	0	2	T	0	1				
454	F	0	0	2		K	S	0	2	T	0	1				
455	F	0	0	3		K	S	0	2	T	0	1				
456	F	0	0	4		K	S	0	2	T	0	1				
457	F	0	0	5		K	S	0	2	T	0	1				
458	F	0	3	9		K	S	0	2	T	0	1				
459	W	T	0	1		K	S	0	2	T	0	1				
460	W	T	0	2		K	S	0	2	T	0	1				
461	W	P	0	1		K	S	0	2	T	0	1				
462	W	P	0	2		K	S	0	2	T	0	1				
463	W	S	C	2		K	S	0	2	T	0	1				
464																
465																
466																



**XV. Map**

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

**XVI. Facility Drawing**

All existing facilities must include a scale drawing of the facility (refer to instructions for more detail).

**XVII. Photographs**

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to instructions for more detail).

**XVIII. Certifications**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Operator\***

Name and Official Title (type or print)  
Keith A. Klein, Manager  
U.S. Department of Energy  
Richland Operations Office

**Signature**



**Date Signed**

7/11/05

**Co-Operator**

Name and Official Title (type or print)  
Roby D. Enge, Director  
Environment, Safety, Health and Quality  
Pacific Northwest National Laboratory

**Signature**



**Date Signed**

5/20/05

**Co-Operator – Address and Telephone Number**

3350 George Washington Way  
P.O. Box 999  
Richland, WA 99352  
(509) 376-1187

**Facility-Property Owner\***

Name and Official Title (type or print)  
Keith A. Klein, Manager  
U.S. Department of Energy  
Richland Operations Office

**Signature**



**Date Signed**

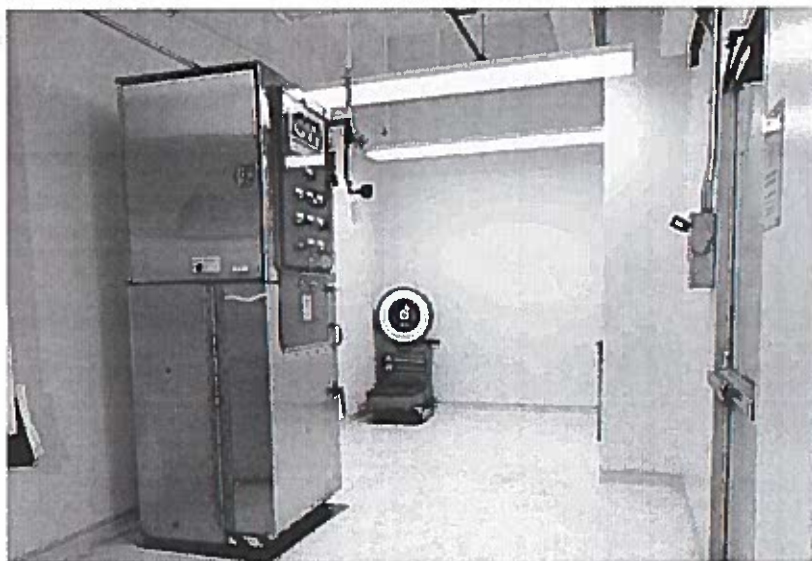
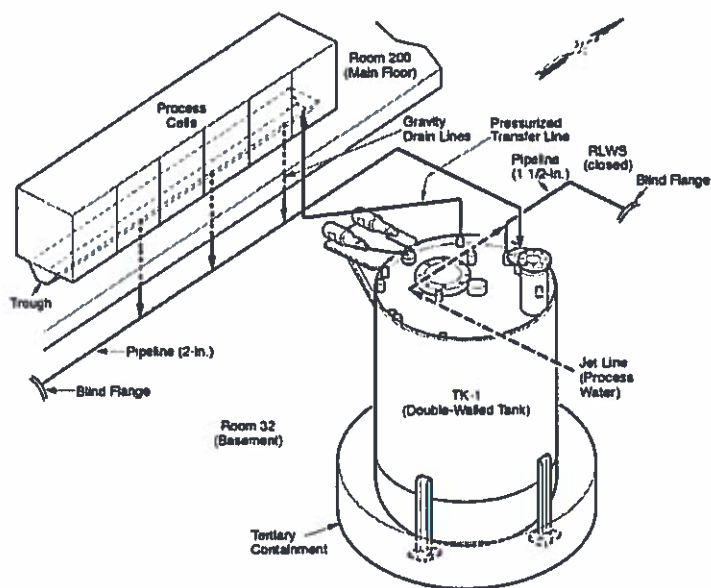
7/11/05

**Comments**



## 325 Hazardous Waste Treatment Units

### Shielded Analytical Laboratory Tank and Ancillary Piping

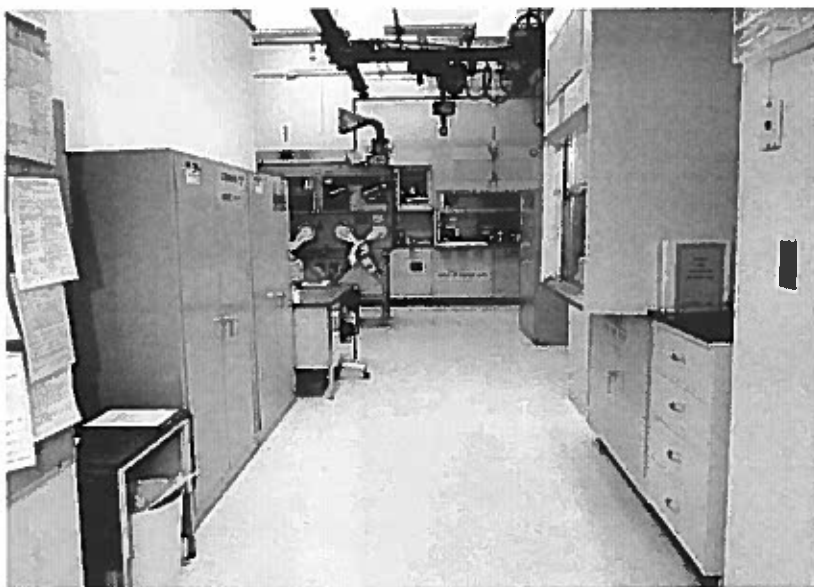


Room 528

98010398-22CN  
(Photo Taken 1996)

## 325 Hazardous Waste Treatment Units

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**Room 528**

96010398-20CN  
(Photo Taken 1996)



**Room 520**

96010398-17CN  
(Photo Taken 1996)

## 325 Hazardous Waste Treatment Units

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Room 201

96010398-16CN  
(Photo Taken 1996)

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Room 201

96010398-7CN  
(Photo Taken 1996)

## Shielded Analytical Laboratory



**Room 200**

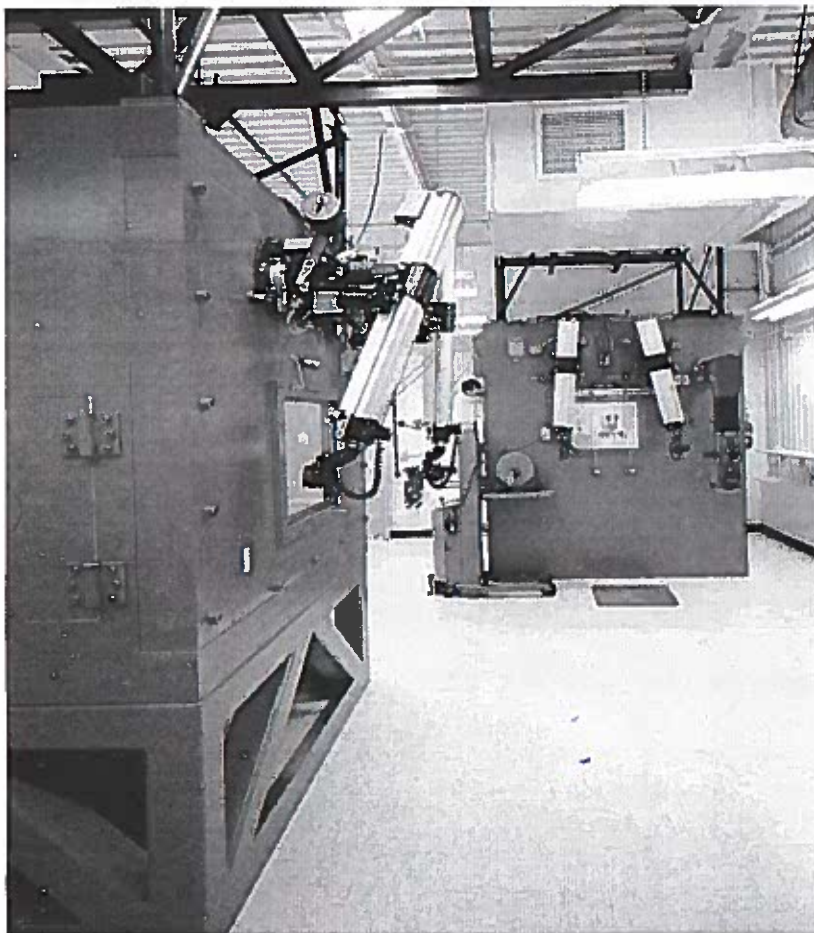
96010398-1CN  
(Photo Taken 1996)



**SAL Tank (Room 32)**

96010398-3CN  
(Photo Taken 1996)

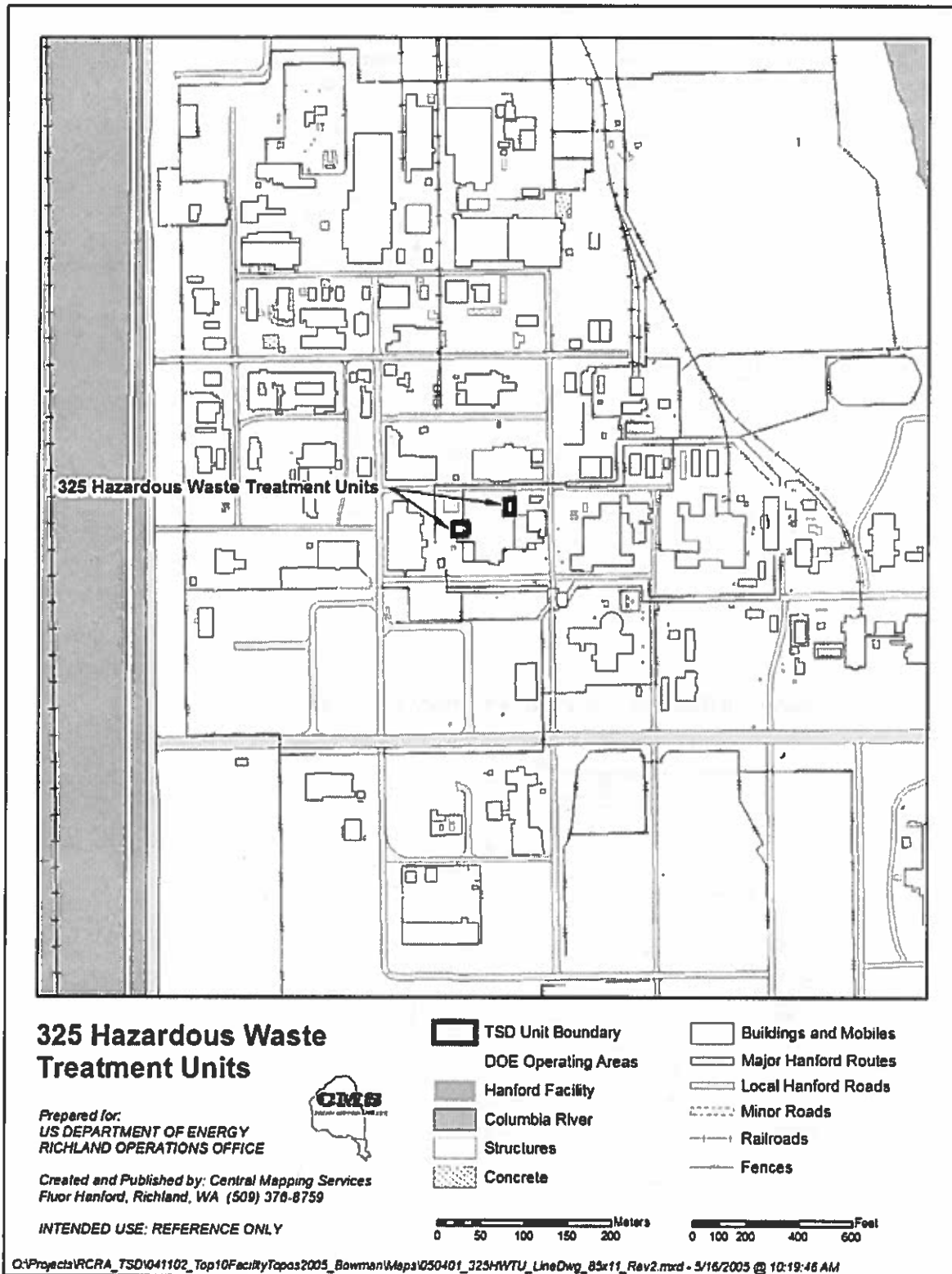
## Shielded Analytical Laboratory



Room 203

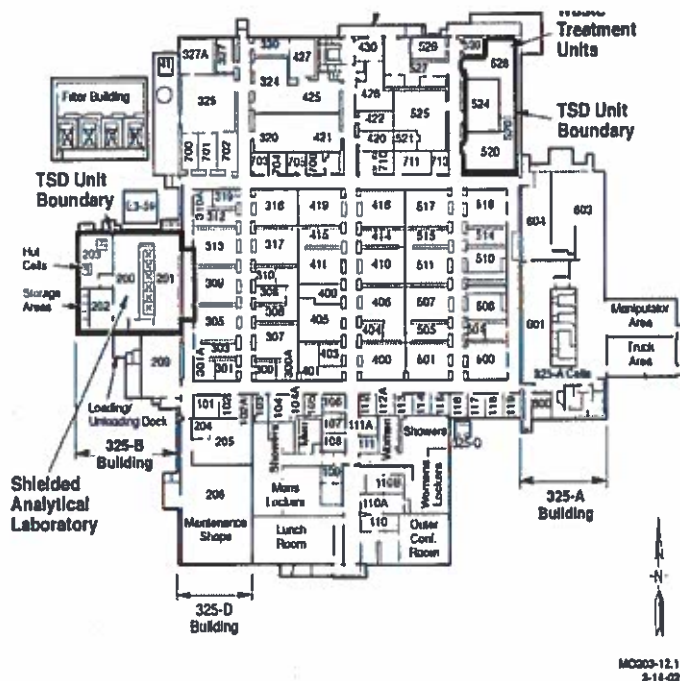
7908247-1CN  
(Photo Taken 1979)



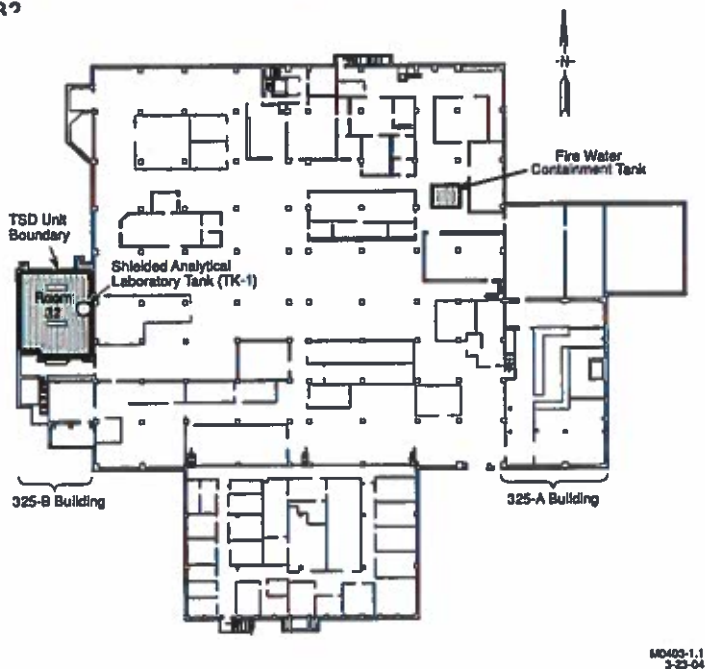


## 325 Hazardous Waste Treatment Units

Location of the Hazardous Waste Treatment Unit and  
Shielded Analytical Laboratory (main floor)



Location of Shielded Analytical Laboratory Tank in Room  
32





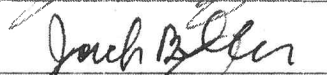




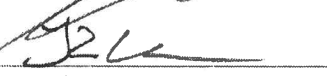
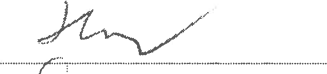
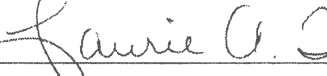
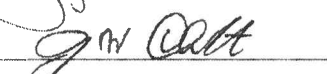
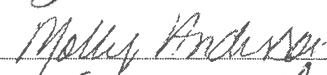
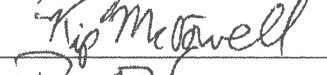



## TOUR/INSPECTION ATTENDANCE FORM

FACILITY: EPA/WA06 325 Facility Assessment

DATE: July 14<sup>th</sup> 2015

PNNL POC: GENE GROHS - RCRA SME

	Name (Print)	Signature	Title
1.	Isadore Henderson		FSR
2.	JARED MATHEW		ENVIRONMENTAL SPECIALIST
3.	Jack Boller		EPA inspector
4.	MATT VOJIK		EPA inspector
5.	KENT McDONALD		CPRP - Waste Program
6.	John Holland		EPRP/ ECR
7.	ZANO TURNER		FSR
8.	TL VanArsdale		MWO manager
9.	Derek Wright		FR
10.	Laurie A. Trve		MFS Manager
11.	Jeff Chenault		SFO TSD TECH
12.	Molly Anderson		MWO
13.	Kip McDowell		MWO
14.	Paul T Saueressig		Bldg Mgr